

YIYONG HE

*Innovative ceramic engineer
specializing in product
research & development.*

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Rolla, MO 65401
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SKILLS

Glass composition
design
Microsphere
manufacturing
Product optimization

PROFESSIONAL EXPERIENCE

SAJ SCIENCE GROUP 2013-present
Co-owner

Provided glass engineering services, including computer modeling applications.

MO-SCI CORPORATION 2005-2013, 1990-1997
Senior Research Engineer

Developed the following products:
Fluoride glass for dental filler composite applications.
Silver phosphate glass for antibacterial applications.
Synthetic porous HA for heavy metal absorption.
Porous Vycor glass for space shuttle insulation coating.

AREAS OF EXPERTISE

Biomaterials
Optical Glass
Synthetic porous
materials

CHINESE LANTERN RESTAURANT 1994-2004
Owner

Set up business and managed 8 employees for 8 years.
Brought in \$700,000 of annual revenue.

EDUCATION

MS, Ceramic
Engineering, 1990,
University of Missouri
Rolla

BS, Ceramic Engineering,
1982, East China
University of Science and
Technology

SHANGHAI COLORED OPTICAL GLASS WORKS 1982-1988
Deputy Director & Research Engineer

Researched and developed colored optical glass filters.

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GRANTS

Principal Investigator, Nordion Lab, Preparation of Strontium Phosphate Microspheres for On-Site Delivery of Yttrium-90, 2008. Developed second generation liver cancer therapy platform.

Co-investigator, NIH, Nonstructural Dental Composite Restorative Materials, June 2011. Developed an unconventional microspheres manufacturing technique.

Co-investigator, Removal of Chemical-Biological-Radiological Nuclear Materials from Soil and Water Using Nanosize Hydroxyapatite and Barium Phosphate Materials, Contract W911NF-07-2-0062, DoD Fort Leonard Wood Institute, December 2011.

Co-investigator, UV Retroreflector Covert Taggant, Contract No. LWI-101-013, DoD Fort Leonard Wood Institute, December 2011.

Co-investigator, Artificial Tissue Matrices for Bone Repair, DoD Navy SBIR Phase I Award N00014-11-M-013, 2011. Subcontract of NIH R21 00018336 Grant, J.D. Eick, D.E. Day, M. Velez, T. Schuman, Nanostructural Dental Composite Restorative Materials, June 2011.

Co-investigator, Gradient Index Spheres by the Sequential Accretion of Glass Powders, DOE SBIR Phase I Award DE-FG02-07ER84737, 2008.

Principal Investigator, NSF grants (DMI-9661043), "New Method to Minimize the Evaporation of Volatile Colorant," January 1997 to June 1997.

Principal Investigator, NSF grants (DMI-936103), "Development of Poly(Methyl Methacrylate) Composite Color Filter," May 1994 to November 1994.

PUBLICATIONS & PRESENTATIONS

Yiyong He, Ted Day, Delbert Day, Preparation of Strontium Phosphate microspheres for on-site delivery of Yttrium-90. Presentation on Innovation in Biomedical materials 2012 September 10-13, Raleigh, NC.

M. Velez, **Y. He**, D.E. Day, T.P. Schuman, K.V. Kilway, J.R. Melander, R.A. Weiler, B.D. Miller, E.L. Nalvarte, J.D. Eick, Processing of Yttrium Aluminosilicate Glasses for Dental Composites, *Cerâmica (Brazil)*, 57[341], 1-9 (2011).

M. Velez, **Y. He**, D.E. Day, K.V. Kilway, E.L. Nalvarte, J.D. Eick, Alkali-Free REAS Glass Fillers for Use in Biocompatible Composites, IADR (International Association for Dental Research), Miami, April 2009.

D.E. Day, M. Velez, **Y. He**, J.D. Eick, Rare-Earth-Alumino-Silicate Glasses as Dental Filler, IADR (International Association for Dental Research), Miami, April 2009.

M. Velez, **Y. He**, M. Rupasinghe, V.A. Samaranayake, R.K. Brow, UV-Covert Glass Taggants, American Ceramic Society Glass 2012 Symposium, St. Louis, May 2012.

Y. He, M. Velez, T. Schuman, D.E. Day, K. Kilway, E. Nalvarte, J.D. Eick, Ag-Doped Bioactive Glasses as Fillers in Bio-Composites, IADR (International Association for Dental Research), Washington DC, April 2010.

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