

## CURRICULUM VITAE

**GENERAL: H-Index: 100, “Highly Cited Researchers” Clarivate Analytics (Thompson Reuters) Nov. 2016**

Name: Dr. Rajender S. Varma

Address: Water Systems Division/Water Resources Recovery Branch,  
National Risk Management Research Laboratory  
U. S. Environmental Protection Agency

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Google Scholar: <https://scholar.google.com/citations?user=kzbCKOQAAAAAJ&hl=en>

**Research Gate:** [https://www.researchgate.net/profile/Rajender\\_Varma/info](https://www.researchgate.net/profile/Rajender_Varma/info)

Home address: 8294 Millview Drive, Cincinnati, Ohio 45249, USA.

Born: July 26, 1951, New Delhi, India

Citizenship: USA

Marital Status: Married to Dr. Manju Varma (since 1977)

### EDUCATION:

<u>Degrees</u>	<u>Subjects</u>	<u>University</u>	<u>Year</u>
<b>B.S.</b>	Chemistry, Physics, Maths.	Panjab University, India	1970
<b>M.S.</b>	Organic Chemistry	Kurukshetra University, India	1972
<b>Ph.D.</b>	Natural Products Chemistry	Delhi University, India	1976
<b>Diploma</b>	German Language	Delhi University, India	1976
<b>Postgraduate-Diploma</b>	Pulp & Paper-Technology	Norwegian Inst. of Tech., Norway	1978

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### PROFESSIONAL EXPERIENCE (CAREER HISTORY)

**1999-Present Senior Scientist (GS-1320, Level 15, Step 10-Highest level in US Federal Government General Services),** Water Systems Division/ Water Resources Recovery Branch, National Risk Management Research Laboratory, ORD, U.S. Environmental Protection Agency.

**2014-Present Visiting Scientist,** Regional Centre of Advanced Technologies and Materials (RCPTM), Faculty of Science, Palacky University, Olomouc, Šlechtitelů 11, 783 71, Olomouc, Czech Republic.

**1996-1999 Research Professor,** Department of Chemistry,

- Project Manager**, Texas Research Institute for Environmental Studies (TRIES)  
Sam Houston State University, Huntsville, Texas.
- 1993-1999** **Senior Scientist**, Technology Development Laboratory,  
Houston Advanced Research Center (HARC), The Woodlands, Texas.
- 1990-1993** **Assistant Professor** - The Center for Biotechnology, Baylor College of Medicine,  
The Woodlands, Texas.
- 1988-1990** **Scientist III** - Natural Products and Organic Chemistry Laboratory,  
Houston Biotechnology Incorporated (HBI), The Woodlands, Texas.
- 1986-1988** **Group Leader** - Natural Products and Organic Chemistry Laboratory,  
Houston Biotechnology Incorporated (HBI), The Woodlands, Texas.
- 1983-1986** **Senior Research Associate**, Chemistry Department, University of Tennessee,  
Knoxville, Tennessee, U. S. A.
- 1979-1982** **Post-doctoral Research Fellow** with Dr. F. M. Dean in the Robert Robinson  
Laboratories, the University of Liverpool, England.
- 1977-1979** **NORAD Fellow** with Prof. H. W. Giertz in the Institute of Cellulose Technology,  
Norwegian Institute of Technology, Norway, on the projects "Utilization of Sugar  
cane Bagasse" and "Delignification Studies."
- 1976-1977** **Research Scientist** in Gwalior Rayon Silk Manufacturing (Wvg.) Company, Ltd.,  
Mavoor, Calicut, India. Worked on the chemistry involved in paper, pulping  
(delignification and product development).
- 1975-1976** **Senior Research Fellow** in the Center of Advanced Study, Department of  
Chemistry, Delhi University, Delhi, India.  
Natural Products Chemistry — Isolation, Structural elucidation and Synthesis of  
phenolic glycosides.
- 1973-1976** **Research Fellow of C.S.I.R.** New Delhi, India in Delhi University with Dr. M. R.  
Parthasarathy. Worked for Ph.D., thesis entitled "*PHYTOCHEMICAL STUDY OF  
SOME LEGUMINOUS PLANTS AND CALLISTEMON LANCEOLATUS*".
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**HONORS & AWARDS:**

- 2016** "Highly Cited Researchers" Clarivate Analytics (formerly Thompson Reuters) Nov.  
**2016** (Top 1% in Chemistry).

- 2016 International Association of Advanced Materials (IAAM) Medal** for notable and outstanding contributions in the field of Advanced Materials Science and Technology, Stockholm, Sweden.
- 2015 ORD Sustainability Award, Office of Research & Development, US EPA**  
*Sustainable Strategies for Risk Reduction in Nanotechnology: Application in Chemical Catalysis and Environmental Remediation.*
- 2013 Silver Medal for Superior Service-EPA NATIONAL HONOR AWARDS**  
*For outstanding scientific and leadership contributions establishing EPA as a pioneering organization in the area of Green Chemistry.*
- 2012 Science and Technology Achievement Award, US EPA (Honorable Mention):**  
*Technical Achievement in Eco-Friendly Generation of Nanometals for Application in Environmental Remediation.*
- 2012 2011 National Risk Management Research Laboratory Award, US EPA.**  
*Goal 1 - A Systems Approach to Sustainable Solutions.*
- 2010 2010 National Risk Management Research Laboratory Award, US EPA.**  
*Goal 1 - Environmental Solutions.*
- 2009 Science and Technology Achievement Award, US EPA (Honorable Mention):**  
*Exceptional Technical Achievement in Summarizing an Expedient Microwave Technology in "Greener" Reaction Media.*
- 2009 "Visionary of the Year Award" by Green Technology for the Environment** for the promotion and support of green and sustainable technologies.
- 2008 Science and Technology Achievement Award, US EPA (4 Honorable Mentions):**
- (i) *Exceptional Technical Achievement in Developing a Microwave Technology for Greener Chemical Synthesis in Water.*
  - (ii) *Exceptional Technical Achievement in Advancing Emerging Alternative Technologies for Greener Chemical Processing.*
  - (iii) *Exceptional Technical Achievement in Green Synthesis of Nanofibers for Capacitor Applications and Chemical Catalysis.*
  - (iv) *Exceptional Technical Achievement in the Synthesis of Green nanocomposites Comprising Nanometals and Carbon Nanotubes.*
- 2007 Science and Technology Achievement Award, US EPA-(Level III):**
- (i) *Designing a Process for Converting Greenhouse Gas, CO<sub>2</sub>, to Cyclic Carbonates in Non-Volatile Ionic Liquid Solvents.*
  - (ii) *Exceptional Technical Achievement in Developing a Microwave Technology for Greener Chemical Processing in Water.*
  - (iii) *Developing a Novel Approach for Greener Production and Safer Use of Noble Nanometals and Metal Oxides.*
- 2006 Elected as member of the Board of Governors for the International Microwave Power Institute (IMPI).**
- 2004 Excellence in Government Fellow (2003-2004).**  
The Council for Excellence in Government, Washington, DC.
- 2003 Sustainable Technology Division- Individual Achievement Award, NRMRL, US EPA**—"Greener Strategies for Chemical Synthesis".
- 2003 Science and Technology Achievement Award, US EPA - (Level II):**  
*Exceptional Technical Achievement in Highlighting the Use of Benign Mineral-Based Reagents in Chemical Synthesis.*
- 2002 Prof. S. Ramaseshan Distinguished Lecture Award, Astrazeneca Research Foundation, Bangalore, India.**

- 2002** **Science and Technology Achievement Award, US EPA - (Level III)**  
*Exceptional Technical Achievement in Identifying and Summarizing a 'Greener' Approach to Chemical Processing.*
- 2002** **Science and Technology Achievement Award, US EPA-(Honorable mention)-**  
*Outstanding Research in "Green" Synthesis of Non-Volatile Ionic Liquid Solvents Using Microwaves.*
- 2002** **Sustainable Technology Division- Individual Achievement Award, NRMRL,**  
US EPA-Green Chemistry- Environmentally Benign Chemical Synthesis".
- 2002** **Themis Medicare Chemcon Distinguished Speaker Award** from Indian Institute of Chemical Engineers (I.I.Ch.E.).
- 2002** Listed in Marquis's *"Who's Who in America"*, 56th Edition, New Jersey, 2014 (listed in all annual editions since 1986).
- 2002** Listed in Marquis's *"Who's Who in the World"*, 19th Edition, New Jersey, 2013 (also listed in previous editions).
- 2001** **"S" Award-Superior Accomplishment Award (research)** Clean Processes Branch, STD, NRMRL, US EPA.
- 2000** **Prof. R. A. Rajadhyaksha Distinguished Speaker Award**, University Department of Science and Technology, University of Mumbai, Mumbai, India.
- 1999** **Elected representative and expert from United States** in European Union's COST project on *"Microwave-assisted Chemical Processes."*
- 1998** Nominated for the *"Presidential Green Chemistry Award"*, an annual event in Washington DC that takes place along with the 'Green Chemistry and Engineering Conference' and recognizes the 'leaders' in green chemistry area.
- 1996** *Marjorie W. Margolin Prize* for outstanding contribution to Retina Research, The Retina Research Foundation, Houston, USA, 1996.
- 1986-present** Listed in *"American Men and Women of Science"*, New York.
- 1977-1979** *NORAD Fellowship*, Norwegian Government, Oslo, Norway.
- 1973-1975** *Research Fellowship*, Council of Scientific and Industrial Research (CSIR), Government of India, New Delhi, India.

**MEMBER:** **American Chemical Society (since 1986); University of Kentucky (Super fund)-SRC External Advisory Committee Member (since 2017)**

**Editorial Board Member** for professional journals namely *Green Chemistry (RSC); ACS Sustainable Chemistry and Engineering (ACS), Environmental Science: Nano (RSC); Int. J. Green Nanotechnology (Taylor and Francis); Organic and Medicinal Chemistry Letters, Springer-Verlag, Heidelberg, Germany; Applied Sciences, MDPI AG Basel, Switzerland; Current Green Chemistry, Current Organocatalysis, and Current Microwave Chemistry (Bentham Science), Green and Sustainable Pharmacy, Current Opinion in Green and Sustainable Chemistry (Elsevier), among others.*

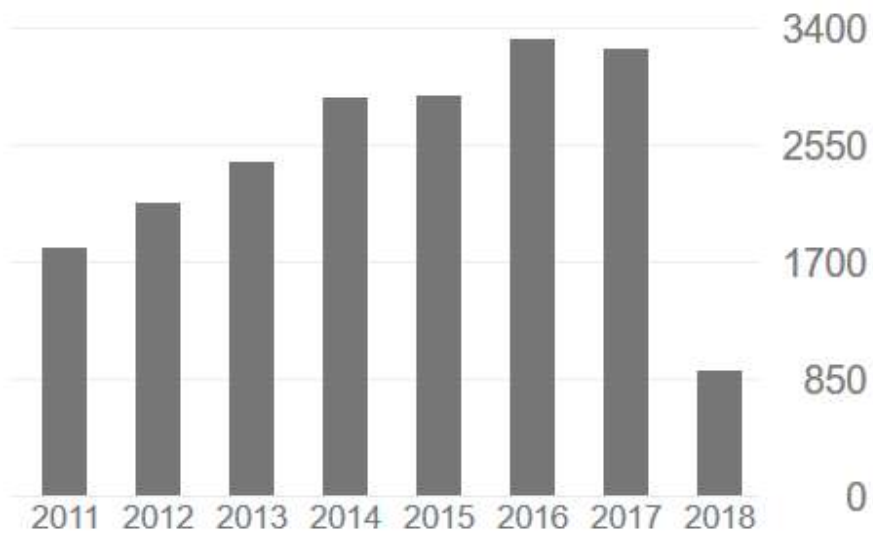
**U.S. & FOREIGN PATENTS:** *16 US Patents have been issued-some additional are pending.*

**PRESENTATIONS:** (~394 Presentations in National and International meetings worldwide).

**PUBLICATIONS DETAILS/IMPACT:**

(~465 Peer-reviewed Papers, 7 Books, 28 Book Chapters and 3 Encyclopedia contributions).

	All	Since 2013
Citations	32584	15820
h-index	100	63
i10-index	359	266



Citations per year

