



Eighth "Cristofor I. Simionescu" Symposium *Frontiers in Macromolecular and Supramolecular Science*

Romanian Academy | Bucharest - Iasi | 31 May - 2 June 2016



### **Michael L. Klein**

**Temple University, Philadelphia, PA, USA**

#### ***"State-of-the-Art in Modeling of Water and Ionic Solutions"***

*"Laura H. Carnell" Professor of Science  
Director, Institute for Computational Molecular Science, College  
of Science and Technology, Temple University in Philadelphia,  
USA*

*"Hepburn" Professor of Physical Science, Center for Molecular  
Modeling, University of Pennsylvania*

**Domenii de cercetare:** chimie computațională, mecanică statistică, reacții intermoleculare, modelarea fazelor condensate și sistemelor biofizice

**Premii:** Premiul *Aneesur Rahman* (1999), cea mai înaltă distincție acordată de *American Physical Society*

**Publicații:** peste 640 articole, editor a 4 cărți

**Indice Hirsch:** 80 (potrivit Scopus - 22.05.2016)



### **Jean M. J. Frechet**

**UC Berkeley, CA, USA**

**KAUST, Saudi Arabia**

#### ***"Polymers for Biological Applications"***

*Professor Emeritus, University of California, Berkeley;  
Director, Materials Synthesis, Materials Science Division at*

*Lawrence Berkeley National Laboratory;*

*Director, Organic and Macromolecular Facility for the Molecular Foundry, Lawrence Berkeley National Laboratory;*

*Vice-President for research at King Abdullah University of Science and Technology.*

**Domenii de cercetare:** sinteză organică și chimie macromoleculară aplicate în nanoștiință și nanotehnologie cu accent pe design, sinteză și aplicații ale macromoleculilor funcționale

**Publicații:** 900 articole și peste 70 brevete americane

**Indice Hirsch:** 127 (potrivit Scopus - 22.05.2016)



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**Robert H. Grubbs**  
Caltech, Pasadena, USA

***"Synthesis of Functional Materials using Metathesis Initiators"***

**Premiul Nobel pentru Chimie (2005) pentru cercetări în domeniul „Olefin Metathesis“ (împreună cu Richard R. Schrock and Yves Chauvin)**

**Premii:** Premiul *Arthur C. Cope*, Premiul *ACS Herbert C. Brown for Creative Research in Synthetic Methods*, Premiul *Tetrahedron Most Cited Paper 2002-2006* pentru „Olefin Metathesis“

**Publicații:** 700 articole și peste 100 brevete

**Indice Hirsch:** 112 (potrivit Scopus - 22.05.2016)



**Joanna Aizenberg**  
Harvard University, Cambridge, MA, USA

***"Supramolecular Polymers with Self-regulated Secretion: Towards New Antifouling Materials"***

*Amy Smith Berylson Professor of Materials Science and Professor of Chemistry & Chemical Biology; Director, Kavli Institute for Bionano Science and Technology;*

*Core Member, Wyss Institute for Biologically Inspired Engineering at Harvard University.*

**Domenii de cercetare:** biomimetică, autoasamblare, ingineria cristalelor, nanofabricare, biooptică, biomateriale, biomecanică

**Publicații:** peste 200 articole

**Indice Hirsch:** 53 (potrivit Scopus - 22.05.2016)



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### **Virgil Percec**

**University of Pennsylvania, Philadelphia, PA, USA**

***"Helical Supramolecular Polymerization of Homochiral, Heterochiral, Racemic and Achiral Building Blocks"***

*"P. Roy Vagelos" Professor of Chemistry;  
Editor of Journal of Polymer Science: Part A: Polymer Chemistry;*

*Member of Editorial and Advisory Boards of 20 scientific journals;  
Consultant to numerous US and International Companies and Governmental Offices.*

**Domenii de cercetare:** cataliză, chimie macromoleculară, chimie supramoleculară, cristale lichide, nanoștiință și biologie

**Publicații:** peste 700 articole, 80 de brevete, 18 cărți

**Indice Hirsch:** 86 (potrivit Scopus - 22.05.2016)



### **Peter H. Seeberger**

**MPI, Potsdam-Golm and Freie University of Berlin, Germany**

***"Synthetic Carbohydrate Materials"***

*Director, Max-Planck Institute for Colloids and Surfaces in Potsdam;*

*Professor, Freie University of Berlin;*

*Honorary Professor, University of Potsdam.*

**Premii:** A obținut peste 25 de premii internaționale: Arthur C. Cope Young Scholar, Horace B. Isbell, Claude S. Hudson, Körber Prize for European Sciences, Honorary Lifetime Member Israel Chemical Society, Yoshimasa Hirata Gold Medal, Whistler Award 2012, Int. Carboh. Soc.

**Domenii de cercetare:** chimia și biologia carbohidraților, inginerie, imunologie

**Publicații:** 400 articole, 4 cărți, peste 35 de brevete

**Indice Hirsch:** 60 (potrivit Scopus - 22.05.2016)



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**Robert B. Grubbs**  
Stony Brook University, NY, USA

***"From Molecules to Macromolecules to Functional Materials: Controlling Structure and Properties through Synthesis"***

*Associate Professor, Department of Chemistry, Stony Brook University;*

*Scientist, Center for Functional Nanomaterials, Brookhaven National Laboratory;  
Associate Professor, Department of Chemistry, Dartmouth College;  
Member, Center for Nanomaterials Research, Dartmouth College.*

**Premii:** Kavli Fellow of the National Academy of Sciences, Distinguished Professorship, Donghua University

**Publicații:** peste 40 articole, 4 brevete

**Indice Hirsch:** 25 (potrivit Scopus - 22.05.2016)



**Beate Koks**  
Freie University of Berlin, Germany

***"Fluorine in Peptide and Protein Engineering"***

*Professor of Organic Chemistry, Peptidic Materials and Therapeutics with Unnatural Building Blocks, Freie Universität Berlin;*

*Speaker of the DFG Research Training Group "Fluorine as Key Element";*

*Speaker of the Center for Supramolecular Interactions CSI.*

**Domenii de cercetare:** mecanisme în boli neurodegenerative, dezvoltarea de matrici noi multivalente și investigarea impactului florului asupra aminoacizilor, peptidelor și proteinelor

**Publicații:** peste 110 articole

**Indice Hirsch** = 26 (potrivit Scopus - 22.05.2016)



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**Katherine B. Aubrecht**  
Stony Brook University, NY, USA

***"Chemistry Education for Sustainable Development"***

*Assistant Professor, Chemistry, Sustainability Studies Program, Stony Brook University;*  
*Assistant Professor, Interdisciplinary Program on Sustainability, Stony Brook University, Southampton Campus.*

**Domenii de interes:** cercetare – polimeri biodegradabili și bioregenerabili; educație – dezvoltarea manualelor de chimie.

**Publicatii:** 16 articole

**Indice Hirsch:** 12 (potrivit Scopus - 22.05.2016)



**Michael Aizenberg**  
Harvard University, Cambridge, MA, USA

***"Stimuli-responsive Gels: New Composition Architecture and Functions"***

*Senior Staff Scientist, Synthetic Chemistry, Wyss Institute for Biologically Inspired Engineering*

**Domenii de cercetare:** sinteza chimică – materiale organice și macromoleculare, materiale organometalice, anorganice și nucleare, nanomateriale, inginerie tisulară, sinteză de nanoparticule, microfabricare și dezvoltare de materiale eficiente energetic, platforme pentru tehnologii legate de materiale adaptative

**Publicații:** 16 articole

**Indice Hirsch:** 9 (potrivit Scopus - 22.05.2016)