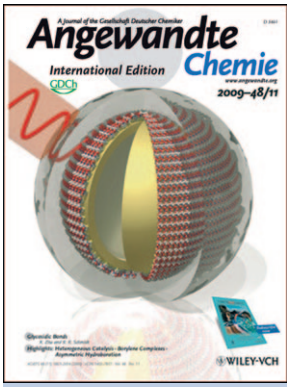
C. Schmuck

*The author presented on this page has recently published his **10th article** since 2000 in Angewandte Chemie:* "Reversible and Noncompetitive Inhibition of β-Tryptase by Protein Surface Binding of Tetravalent Peptide Ligands Identified from a Combinatorial Split-Mix Library": P. R. Wich, C. Schmuck, *Angew. Chem.* **2010**, *122*, 4207–4210; *Angew. Chem. Int. Ed.* **2010**, *49*, 4113–4116.



C. Schmuck has been featured on the cover of Angewandte Chemie: "SERS Labels for Red Laser Excitation: Silica-Encapsulated SAMs on Tunable Gold/Silver Nanoshells": B. Küstner, M. Gellner, M. Schütz, F. Schöppler, A. Marx, P. Ströbel, P. Adam, C. Schmuck, S. Schlücker, *Angew. Chem.* **2009**, *121*, 1984–1987; *Angew. Chem. Int. Ed.* **2009**, *48*, 1950–1953.

Carsten Schmuck

Date of birth:	February 20, 1968
Position:	Professor of Organic Chemistry at the University of Duisburg–Essen (Germany)
Education:	1992 Diploma in Chemistry, Ruhruniversität Bochum (Germany) 1994 PhD with Prof. Dr. W. R. Roth, Ruhruniversität Bochum 1995–1997 Postdoctoral Fellow (Feodor Lynen Fellowship of the Alexander von Humboldt Foundation) with Prof. Dr. Ron Breslow, Columbia University, New York (USA)
Professional associations:	1997–2001 Habilitation, Institute of Organic Chemistry, University of Cologne (Germany) 2002–2008 Professor of Organic Chemistry, Julius Maximilians University, Würzburg 2008–Present Professor of Organic Chemistry, University of Duisburg–Essen
Awards:	**2002** Karl-Arnold Prize of the Nordrhein-Westfälische Akademie der Wissenschaften und der Künste; **2002** Fellowship of the Fonds der Chemischen Industrie; **2005** Fritz Winter Prize from the Bavarian Academy of Science; **2006** Medal of Honor in gold from the Malteser Hilfsdienst
Current research interests:	Supramolecular chemistry in water; design and development of anion receptors; artificial receptors for molecular recognition of peptides, proteins, and nucleic acids; quantitative study of non-covalent interactions by using "knock-out" analogues; influence of the solvent on noncovalent interactions and host–guest complexes; self-assembling zwitterions; supramolecular polymers; switchable nanoassemblies
Hobbies:	Reading a (nonscientific) book, enjoying a good home made meal and a glass of wine, my volunteer work for the Malteser Hilfsdienst

My favorite subjects at school were … mathematics, chemistry, and French.

The three qualities that make a good scientist are … curiosity, enthusiasm, and persistence.

When I was eighteen I wanted to be … a chemist (much to the reluctance of my parents who were already afraid of all the chemical experiments I had done at home in the years before).

When I wake up I … make myself a coffee and start the day with a look into the newspaper.

The most significant scientific advance of the last 100 years has been … for me as a chemist, of course, the increasing understanding that everything going on around us is somehow based on interacting chemical molecules and entities.

The biggest challenge that scientists face is … besides budget cuts? Probably to keep track of the enormous increase in knowledges. It becomes more and more challenging to stay informed about new discoveries even in your own field of research, let alone anything in other areas of science.

My favorite piece of research is … always changing. This is the great thing about science: new and fascinating things are constantly being discovered.

If I could have dinner with three famous scientists from history, they would be … Leonardo da Vinci, Marie Curie, and August Kekulé.

I chose chemistry as a career because … it is not only a fascinating science that helps us to understand nature and to solve challenges that mankind is facing, but it is also a lot of fun.

If I were not scientist, I would be … either a cook or a physician.

My 5 top papers:

1. "Highly Stable Self-Assembly in Water: Ion Pair Driven Dimerization of a Guanidiniocarbonyl Pyrrole Carboxylate Zwitterion": C. Schmuck, W. Wienand, *J. Am. Chem. Soc.* **2003**, *125*, 452–459.
2. "Dipeptide Binding in Water by a de Novo Designed Guanidiniocarbonylpyrrole Receptor": C. Schmuck, L. Geiger, *J. Am. Chem. Soc.* **2004**, *126*, 8898–8899.
3. "Charge Interactions Do the Job: A Combined Statistical and Combinatorial Approach to Find Artificial Receptors for Tetrapeptide Binding in Water": C. Schmuck, M. Heil, J. Scheiber, K. Baumann, *Angew. Chem.* **2005**, *117*, 7374–7379; *Angew. Chem. Int. Ed.* **2005**, *44*, 7208–7212.
4. "Sequence-Dependent Stereoselectivity in the Binding of Tetrapeptides in Water by Flexible Artificial Receptors": C. Schmuck, P. Wich, *Angew. Chem.* **2006**, *118*, 4383–4387; *Angew. Chem. Int. Ed.* **2006**, *45*, 4277–7281.
5. "Formation of Vesicular Structures through the Self-Assembly of a Flexible Bis-Zwitterion in DMSO": C. Schmuck, T. Rehm, K. Klein, F. Gröhn, *Angew. Chem.* **2007**, *119*, 1723–1727; *Angew. Chem. Int. Ed.* **2007**, *46*, 1693–1697.

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