

Professor Stefan Matile

Curriculum Vitae

1989	Diploma under the Supervision of Professor W.-D. Woggon, University of Zurich
1994	Ph.D. under the Supervision of Professor W.-D. Woggon, Department of Chemistry, University of Zurich, Zurich, Switzerland
1994 - 1996	Swiss NSF Postdoctoral Research Fellow, Department of Chemistry, Columbia University, New York, NY, with Professor K. Nakanishi
1996 - 1999	Assistant Professor of Chemistry, Department of Chemistry, Georgetown University, Washington, DC
1999 - 2003	Associate Professor of Organic Chemistry, Department of Organic Chemistry, University of Geneva, Geneva, Switzerland
2000 - 2005	National Research Program (NRP) in Functional Supramolecular Materials, Project Leader
2003 - present	Full Professor of Organic Chemistry, Department of Organic Chemistry, University of Geneva
2010 - present	National Center of Competence in Research (NCCR) Chemical Biology, Project Leader
2011 - present	European Research Council (ERC) Advanced Investigator
2011 - present	Chairman, Department of Organic Chemistry, University of Geneva, Geneva, Switzerland

Research Interests

At the interface of synthetic organic, biological and supramolecular materials chemistry. Current emphasis is on functional systems, covering topics such as synthetic photosystems, transporters and sensors in lipid bilayer membranes, cellular uptake and exotic interactions at work.

Selected Publications (total 186; 3 *Science*, 30 *JACS*, etc)

- Sakai, N. *et al.* "Self-Organizing Surface-Initiated Polymerization: Facile Access to Complex Functional Systems," *J. Am. Chem. Soc.* **2011**, *133*, 15224-15227 and 15228-15231.
- Takeuchi, T. *et al.* "Pattern Generation with Synthetic Sensing Systems in Lipid Bilayer Membranes," *Chem. Sci.* **2011**, *2*, 303-307.
- Matile, S. *et al.* "Recent Synthetic Transport Systems," *Chem. Soc. Rev.* **2011**, *40*, 2453-2474.
- Dawson, R. E. *et al.* "Experimental Evidence for the Functional Relevance of Anion- π Interactions," *Nature Chem.* **2010**, *2*, 533-538.
- Bhosale, R. *et al.* "Supramolecular *n/p*-Heterojunction Photosystems with Oriented Multicolor Antiparallel Redox Gradients (OMARG-SHJs)," *Chem. Soc. Rev.* **2010**, *39*, 138-149.
- Sakai, N. *et al.* "Core-Substituted Naphthalenediimides," *Chem. Commun.* **2010**, *46*, 4225-4237.
- Sakai, N. *et al.* "Artificial β -Barrels," *Acc. Chem. Res.* **2008**, *41*, 1354-1365.
- Perez-Velasco, A.; Gorteau, V.; Matile, S. "Rigid Oligoperylenediimide Rods: Anion- π Slides with Photosynthetic Activity," *Angew. Chem. Int. Ed.* **2008**, *47*, 921-923.
- Litvinchuk, S. *et al.* "Synthetic Pores with Reactive Signal Amplifiers as Artificial Tongues," *Nature Mater.* **2007**, *6*, 576-580.
- Bhosale, S. *et al.* "Photoproduction of Proton Gradients with π -Stacked Fluorophore Scaffolds in Lipid Bilayers," *Science* **2006**, *313*, 84-86.

Selected Lectures (total 175)

2011 • ISACS-6 (China) • **2010** • EuCheMS 3 (Germany) - XXIII IUPAC Photochemistry (Italy) - ISMSC-V (Japan) • **2009** • IUPAC 42 (UK) - Faraday Discussion 143 (UK) • **2008** • ISMSC-III (US) • **2006** • JSPS (Japan) - MRS (US) • **2005** • GRC Bioorganic (US) - Pacificchem (US) • **2004** • 5th Asan-Lecture (South Korea) • **2002** • Tateshina Conference (Japan) • **2001** • Bürgenstock Conference (CH) - JSPS (Japan) •

Selected Honors

- ERC Advanced Investigator (2010)
- CAS Science Spotlight Recognition 2005 (most accessed article in 2004)
- *Tetrahedron* Most Cited Paper 2003-06 Award, same 2004-07.
- 19 Covers of 17 Different Journals (*J. Am. Chem. Soc.*, *Nat. Chem.*, *Acc. Chem. Res.*, *Chem. Soc. Rev.*, *Angew. Chem.*, etc); permanent cover *Chirality*, annual *Bioorg. Med. Chem.* (2006)
- Editorial Board: *Org. Biomol. Chem.*, *ChemBioChem*, *Chem. Lett.*, *Chirality*, *ChemistryOpen*
- Guest Editor: *Curr. Op. Chem. Biol.*, *Chirality*
- **More:** www.unige.ch/sciences/chiorg/matile/

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