

BRDIČKA MEMORIAL LECTURES 1991-2017

1. (1991) Edgar **HEILBRONNER** (*Eidgenössische Technische Hochschule, Zürich*)
"The old Hückel formalism"
2. (1992) Kamil **KLIER** (*Lehigh University, Bethlehem, Pennsylvania*)
"Physical chemistry in two dimensions"
3. (1993) Joshua **JORTNER** (*Tel Aviv University, Tel Aviv*)
"Clusters – a bridge between molecular and condensed matter chemical physics"
4. (1994) David J. **SCHIFFRIN** (*The University of Liverpool*)
"Electrochemistry in two-dimensional systems"
5. (1995) Josef **MICHL** (*University of Colorado, Boulder, Colorado*)
"Molecular kit for new materials"
6. (1996) Gerhard **ERTL** (*Fritz-Haber-Institut der Max-Planck-Gesellschaft, Berlin*)
"Self-organization in surface reactions"
7. (1997) Roger **PARSONS** (*University of Southampton*)
"Electrochemistry in the last 50 years: from Tafel plotting to scanning tunnelling"
8. (1998) G. Barney **ELLISON** (*JILA and University of Colorado, Boulder, Colorado*)
"The chemical physics of organic reactive intermediates in combustion and atmospheric processes"
9. (1999) Henry F. **SCHAEFER III** (*University of Georgia, Athens, Georgia*)
"The third age of quantum chemistry"
10. (2000) Alexis T. **BELL** (*University of California and Lawrence Berkeley Laboratory, Berkeley, California*)
"Progress towards the molecular design of catalysts –lessons learned from experiments and theory"
11. (2001) Mario J. **MOLINA** (*Massachusetts Institute of Technology, Cambridge, Massachusetts*) "The Antarctic ozone hole"
12. (2002) Jean-Marie **LEHN** (*Université Louis Pasteur, Strasbourg a Collège de France, Paris*) "Selforganization of supramolecular nanodevices"
13. (2003) Helmut **SCHWARZ** (*Technische Universität Berlin*)
"Elementary processes in catalysis: looking at and learning from "naked" transition ion"
14. (2004) Rudolph A. **MARCUS** (*California Institute of Technology, Pasadena*)
"Strange isotope effects in stratospheric ozone and in the earliest minerals in the solar system"
15. (2005) Avelino **CORMA** (*Instituto de Tecnología Química, Valencia*)
" Supramolecular Entities Based on Molecular Sieves for Catalysis and Synthesis of New Materials"

16. (2006) Paul **CRUTZEN** (Max Planck Institute for Chemistry, Mainz):
"Atmospheric Chemistry and Climate in the 'Anthropocene'"
17. (2007) Harry B. **GRAY** (California Institute of Technology, Pasadena)
"The Currents of Life: Electron Flow through Metalloproteins"
18. (2008) Michael **GRÄTZEL** (Ecole Polytechnique Fédérale de Lausanne)
"Mesoscopic Electrodes for Generation and Storage of Electric Power from Sunlight"
19. (2009) Gabor. A. **SAMORJAI** (Department of Chemistry and Lawrence Berkeley National Laboratory, University of California, Berkeley)
"Molecular Foundations of Heterogeneous Catalysis"
20. (2010) Pavel **HOBZA** (Institute of Organic Chemistry and Biochemistry of the ASCR)
"Noncovalent Interactions and their Role in Chemistry and Biochemistry"
21. (2011) Klaus **MÜLLEN** (Max-Planck Institute, Mainz, Germany)
"Carbon Materials and Graphenes"
22. (2012) Enrico **GRATTON** (University of California, Irvine)
"Nanoimaging technique with high time and spatial resolution: Mechanisms of translocation through the nuclear pore complex"
23. (2013) J. Peter **TOENNIES** (Göttingen, Germany)
"Superfluid Helium Nanodroplets: Very Cold and Extremely Gentle"
24. (2014) Christian **AMATORE** (CNRS Paris, France)
"Seeing, Monitoring, Measuring and Understanding Vesicular Exocytosis of Neurotransmitters with Ultramicroelectrodes"
25. (2015) Ulrike **DIEBOLD** (TU Wien, Austria)
"Surface Science of Metal Oxides"
26. (2016) Ferdi **SCHÜTH** (Max-Planck-Institut, Mülheim, Germany)
"Controlled nanostructures for applications in catalysis and beyond"
27. (2017) Frank **NEESE** (Max-Planck Institute, Mülheim, Germany)
"Analysis of complex catalytic mechanisms by High-level spectroscopy and quantum chemistry: The case of water oxidation in PSII"