

SPP 1613 Annual Project Meeting, Tagungsstätte Hofgeismar, 12-13 October 2017

Program

11<sup>th</sup> October 2017:

Arrival

19:00

Dinner

12<sup>th</sup> October 2017:

ID	Time	Principal Investigators	Topic
	07:30 – 09:00		Breakfast
	09:00 – 09:10	Jaegermann, Darmstadt	Welcome / Introduction
1	09:10 – 09:35 3 projects	Bahnemann, Hannover Bredow, Bonn Wark, Oldenburg	Ferrites for photoelectrochemical water splitting
2	09:35 – 10:05 4 projects	Bein, München Fattakhova-R., München Pentcheva, Duisburg Scheu, Düsseldorf	Metal oxide nanostructures for electrochemical and photoelectrochemical water splitting
3	10:05 – 10:35 4 projects	Behrens, Essen Fischer, Freiburg Lerch, Berlin Schedel-Niedrig, Berlin	Novel thin film composites and co-catalysts for visible light-induced water splitting
4	10:35 – 11:00 3 projects	Beránek, Ulm Devi, Bochum Eichberger, Berlin	Development of optimum bandgap photoanodes for tandem water-splitting cells based on doped complex metal oxides and III-V semiconductors coupled to water oxidation electrocatalysts
	11:00 - 11:30		Coffee break
5	11:30 – 11:55 3 projects	Dau, Berlin Fiechter, Berlin Kurz, Freiburg	Development of catalysts, namely manganese oxides and molybdenum sulphides, for implementation in a light-driven water-splitting device using a multi-junction solar cell
6	11:55 – 12:20 3 projects	Fiechter, Berlin Ludwig, Bochum Schuhmann, Bochum	High-throughput characterization of multinary transition metal oxide and oxynitride libraries. New materials for solar water splitting with improved properties
7	12:20 – 12:45 3 projects	Finger, Jülich Jaegermann, Darmstadt Kaiser, Darmstadt Schäfer, Darmstadt	Photoelectrochemical water splitting using adapted silicon based semiconductor multi-junction cell structures
8	12:45 – 13:00 1 project	Jooß, Göttingen	In-situ environmental TEM studies of electro- and photoelectrochemical systems for water splitting
	13:00 – 14:15		Lunch

ID	Time	Principal Investigators	Topic
9	14:15 – 14:30 1 project	Klüner, Oldenburg	Quantum chemical and quantum dynamical studies of the photocatalytic water splitting on titanium dioxide surfaces
10	14:30 – 14:45 1 project	Mathur, Köln	PhotoElectroChemical applicAtion of Uranium oxides for enhanced Light Absorption (PECULIAR)
11	14:45 – 15:00 1 project	Marschall, Gießen	Sustainable solar energy conversion with defined ferrite nanostructures
12	15:00 – 15:20 2 projects	Muhler, Bochum Winterer, Duisburg	Zn-doped Gallium Oxynitride Nanoparticles as Efficient Photocatalyst for Water Splitting
13	15:20 – 15:35 1 project	Schmuki, Erlangen	Ta3N5 nanotubes and -rods: doping, band-gap engineering and stabilization (co-catalysis)
	<b>15:35 - 16:05</b>		<b>Coffee break</b>
14	16:05 – 16:25 2 projects	Strasser, Berlin Teschner, Berlin	Nanostructured mixed metal oxides for the electrocatalytic oxidation of water
15	16:25 – 16:40 1 project	Toimil-Molares, Darmstadt	Investigation and optimization of the physical processes in light induced water splitting with 3D nanowire model systems
16	16:40 – 16:55 1 project	Weidenkaff, Stuttgart	Photocatalytic anion substituted perovskite phases PAP
	16:55 – 18:30		Poster session & cooperation discussions I
	<b>18:30 - 20:00</b>		<b>Dinner</b>
	20:00 – 21:15		Poster session & cooperation discussions II

### 13<sup>th</sup> October 2017:

	<b>07:30 – 08:30</b>		<b>Breakfast</b>
	08:30 – 09:30		Organizational topics: future meetings, organization of cooperation, time table and organization of SPP
	09:30 – 10:30		Discussion of cooperation within the main three project areas: Novel Photoabsorbers, Advanced Electrocatalysts, Device Development
	<b>10:30 - 11:00</b>		<b>Coffee break</b>
	11:00 – 12:00		Discussion of cooperation beyond the main project areas
	12:00 – 13:00		Definition of device integration projects
	<b>13:00 – 14:00</b>		<b>Lunch</b>

14:00

Departure