



Wednesday 12 February

11:00	Registration, Tea and Coffee	
12:00	Lunch	
12:45	Welcome and Introductions Paola Ceroni, <i>Chair of Scientific Committee</i>	
12:55	Outline of Discussion Format Emma Lockyer and Ellis Wilde <i>Royal Society of Chemistry Publishing Editors</i>	
13:00	Introductory Lecture (Session Chair: Michael Sailor) Leigh Canham <i>University of Birmingham, UK</i>	
	Session 1: Synthesis and functionalisation of silicon nanostructures (Session Chair: Jonathan Veinot)	
14:00	Fast room-temperature functionalization of silicon nanoparticles using alkyl silanols Alyssa F. J. van den Boom, Sidharam P. Pujari, Fatma Bannani, Hamed Driss, and Han Zuilhof <i>Wageningen University, The Netherlands</i>	Paper 28893
14:05	Photophysical properties of ball milled silicon nanostructures Ankit Goyal, Menno Demmenie, Chia-Ching Huang, Peter Schall and Katerina Dohnalova Newell <i>University of Amsterdam, The Netherlands</i>	Paper 28845
14:10	Amine functionalised silicon nanocrystals with bright red and long-lived emission Giacomo Morselli, Francesco Romano and Paola Ceroni <i>University of Bologna, Italy</i>	Paper 28891
14:15	Discussion	
15:30	Afternoon tea	
16:00	Dual-emission fluorescent silicon nanoparticle-based nanothermometer for ratiometric detection of intracellular temperature in living cells Jinhua Wang, Airui Jiang, Jingyang Wang, Bin Song and Yao He <i>Soochow University, China</i>	Paper 28892
16:05	The shell matters: one step synthesis of core-shell silicon nanoparticles with room temperature ultranarrow emission linewidth Anna Fucikova, Ilya Sychugov and Jan Linnros <i>Charles University, Czech Republic</i>	Paper 28820
16:10	Critical assessment of wet-chemical oxidation synthesis of silicon quantum dots Jonathan L. Wilbrink, Chia-Ching Huang, Katerina Dohnalova and Jos M. J. Paulusse <i>University of Twente, The Netherlands</i>	Paper 28909
16:15	Discussion	
17:30	Lightning poster presentations (by invitation of the scientific committee)	
18:00	Poster Session and Wine Reception	

Thursday 13 February

	Session 2: Optical and electronic properties: from theory to experiments (Session Chair: Katerina Dohnalova Newell)	
09:00	The influence of hydrofluoric acid etching processes on the photocatalytic hydrogen evolution reaction using mesoporous silicon nanoparticles Sarah A. Martell, Ulrike Werner-Zwanziger and <u>Mita Dasog</u> <i>Dalhousie University, Canada</i>	Paper 28910
09:05	Low temperature radical initiated hydrosilylation of silicon quantum dots Timothy T. Koh, Tingting Huang, Joseph Schwan, Pan Xia, Sean T. Roberts, Lorenzo Mangolini and <u>Ming L. Tang</u> <i>University of California, Riverside, USA</i>	Paper 28895
09:10	Modulating donor-acceptor transition energies in phosphorus-boron co-doped silicon nanocrystals via X- and L-type ligands Gregory F. Pach, Gerard M. Carroll, Hanyu Zhang and <u>Nathan R. Neale</u> <i>National Renewable Energy Laboratory, USA</i>	Paper 28818
09:15	Discussion	
10:30	Morning Tea	
11:00	Ab initio studies of the optoelectronic structure of undoped and doped silicon nanocrystals and nanowires: the role of size, passivation, symmetry and phase <u>Stefano Ossicini</u> , Ivan Marri, Michele Amato, Maurizia Palummo, Enric Canadell and Riccardo Rurali <i>University of Modena and Reggio Emilia, Italy</i>	Paper 28838
11:05	The red and blue luminescence in silicon nanocrystals with an oxidized, nitrogen-containing shell Pavel Galář, Tomáš Popelář, Josef Khun, Irena Matulková, Ivan Němec, Kateřina Dohnalova Newell, Alena Michalcová, Vladimír Scholtz and <u>Kateřina Kůsová</u> <i>Institute of Physics of the Czech Academy of Sciences, Czech Republic</i>	Paper 28957
11:10	Tight-binding calculations of the optical properties of Si nanocrystals in a SiO2 matrix <u>Mikhail O. Nestoklon</u> , Ivan D. Avdeev, Alexey V. Belolipetskiy, Ilya Sychugov, Federico Pevero, Jan Linnros and Irina N. Yassievich <i>Ioffe Institute, Russian Federation</i>	Paper 28995
11:15	Power-dependent photoluminescence decay kinetics of silicon nanocrystals under continuous and pulsed excitation <u>Michael Greben</u> and Jan Valenta <i>Charles University, Czech Republic</i>	Paper 28807
11:20	Discussion	
13:00	Lunch	
	Session 3: Silicon nanostructures for sensing and bioimaging (Session Chair: Leigh Canham)	
14:00	Luminescent silicon nanoparticles for distinctive tracking of cellular targeting and trafficking Gi-Heon Kim, Goun Lee, Myoung-Hee Kang, Minjong Kim, Yusung Jin, Sungjun Beck, Ji Hyun Cheon, Joonyoung Sung and <u>Jinmyoung Joo</u> <i>Ulsan National Institute of Science and Technology (UNIST), Republic of Korea</i>	Paper 28808
14:05	The effects of drying technique and surface pre-treatment on the cytotoxicity and dissolution rate of luminescent porous silicon quantum dots in model fluids and	Paper 28961

	living cells Maxim B. Gongalsky, Uliana A. Tsurikova, Catherine J. Storey, Yana V. Evstratova, Andrew A. Kudryavtsev, Leigh T. Canham and <u>Liubov A. Osminkina</u> <i>Lomonosov Moscow State University, Russian Federation</i>	
14:10	Synthesis and characterization of isothiocyanate functionalized silicon nanoparticles and their uptake in cultured colonic cells <u>Yimin Chao</u> , Ashley I. Marsh, Mehrnaz Behray, Feng Guan, Anders Engdahl, Yueyang Chao, Qi Wang, and Yongping Bao <i>University of East Anglia, UK</i>	Paper 28727
14:15	Discussion	
15:30	Afternoon tea	
16:00	Shedding light on the aqueous synthesis of silicon nanoparticles by reduction of silanes with citrates John L. Z. Ddungu, Simone Silvestrini, Alessandra Tassoni and <u>Luisa De Cola</u> <i>University of Strasbourg, France</i>	Paper 28894
16:05	Ultrasmall silicon nanoparticles as a promising platform for multimodal imaging Garima Singh, John L. Z. Ddungu, Nadia Licciardello, Ralf Bergmann, Luisa De Cola and <u>Holger Stephan</u> <i>Helmholtz-Zentrum Dresden-Rossendorf, Germany</i>	Paper 28796
16:10	Discussion	
17:00	Close of sessions	
18:30	Pre-Dinner Drinks	
19:00	Conference Dinner	

Friday 14 February

	Session 4: Silicon nanostructures for energy conversion and devices (Session Chair: Brian Korgel)	
09:00	Bridging energy bands to the crystalline and amorphous states of Si QDs Bruno Alessi, Manuel Macias-Montero, Chiranjeevi Maddi, Paul Maguire, Vladimir Svrcek and <u>Davide Mariotti</u> <i>Ulster University, Northern Ireland</i>	Paper 28962
09:05	Silicon photosensitisation using molecular layers <u>Leferis Danos</u> , Nathan R. Halcovitch, Ben Wood, Henry Banks, Michael P. Coogan, Nicholas Alderman, Liping Fang, Branislav Dzurnak and Tom Markvart <i>Lancaster University, UK</i>	Paper 28989
09:10	The next big thing for silicon nanostructures – CO₂ photocatalysis <u>Wei Sun</u> , Xiaoliang Yan, Chenxi Qian, Paul N. Duchesne, Sai Govind Hari Kumar and Geoffrey A. Ozin <i>Zhejiang University, China; University of Toronto, Canada</i>	Paper 28890
09:15	Discussion	
10:30	Morning Tea	
11:00	Concluding Remarks Lecture (Session Chair: Paola Ceroni) Brian Korgel <i>The University of Texas at Austin, United States</i>	
11:45	Acknowledgements	

12:00	Close of meeting

Presenting authors are indicated in the programme by an underline. The affiliation is for the presenting author. Please note that this is a draft programme and timings may change.