

1	Research @ NanoTUM		NanoTUM
2	CO-oxidation: The effects of kinks, corners and coverage	B. Hvolbæk, L.C. Grabow, J. Hirvi, T. Jiang, D. Mowbray, H. Falsig, J. Kleis, K.S. Thygesen, K. W. Jacobsen, T. Bligaard, J. K. Nørskov	NanoDTU
3	All-polymer microsystems for cell handling and analysis	Niels B. Larsen, Thomas S. Hansen, Johan U. Lind, David Seimecz, Gertrud Hjortoe, Maria Matschuk	DTU Nanotech
4	Research Activities in the Surface Engineering Group	M. Havsteen Jakobsen, R. Bergmann	DTU Nanotech
5	Surface growth kinetics of ultra nanocrystalline diamond films	H. Sternschulte, C. Baier, S. Ghodbane, M. Fische, D. Steinmüller-Nethl, M. Schreck, U. Stimming	nanoTUM
6	Spin Dynamics in Ferromagnetic Nanostructures	G. Dürr	Lehrstuhl für Physik funktionaler Schichtsysteme (Physik Department E10)
7	Morphology Analysis of Pretextured Polymer Blend Films for Photovoltaic Application	R. Meier	Lehrstuhl fuer Funktionelle Materialien (Physik Department E13)
8	Surface-near structuring of pressure sensitive adhesive films	A. Diethert	Lehrstuhl fuer Funktionelle Materialien (Physik Department E13)
9	INTERDEPENDENCE OF TiO <sub>2</sub> NANOTUBE GROWTH PROPERTIES ON THE CRYSTALLOGRAPHIC ORIENTATION OF THE Ti SUBSTRATE	Silvia Leonardi, Fabio Di Fonzo, Andrea Li Bassi, Ulrich Stimming and Julia Kunze	Lehrstuhl für technische Physik (Physik Department E19)
10	On the characterization of Fe-nano-species in FeBEA zeolites	S.M. Maier, A. Jentys, J.A. Lercher	Lehrstuhl für Technische Chemie II
11	Methane activation using copper oxide nano species in zeolites	C.B. Schneider, C. Breitkopf, J.A. Lercher	Lehrstuhl für Technische Chemie II
12	Time-dependent mechanics in metallic MEMS	L. Bergers, N. Delhey, J. Hoefnagels, M. Geers	Mechanics of Materials - Fac. Mech. Eng.
13	Electrical characterization of carbon powders to be used as fillers in polymeric composites	Bernardo F W Marinho, Marcos G. Ghislandi, Joachim Loos	TU/e, Laboratory of Materials and Interface Chemistry
14	Electrical characterization of carbon powders to be used as fillers in polymeric composites	Bernardo F W Marinho, Marcos G. Ghislandi, Joachim Loos	TU/e, Laboratory of Materials and Interface Chemistry
15	Synthesis of MoO <sub>x</sub> nanoparticles from MoCl <sub>5</sub> and hydrazine in glycols	Oliver Gutiérrez, Johannes A. Lercher	Lehrstuhl Technische Chemie 2
16	Collagen directly controls the formation of bone apatite	Fabio Nudelman, Koen Pieterse, Anne George, Paul Bomans, Heiner Friedrich, Laura Brylka, Peter Hilbers, Gijsbertus de With and Nico Sommerdijk	TU/e, Laboratory of Materials and Interface Chemistry
17	Mn Doped InAs/GaAs Quantum Dots Studied by X-STM	M. Bozkurt, J.K. Garleff, E. Marega Jr., G.J. Salamo, A.Yu. Silov, A.M. Monakhov and P.M. Koenraad	TU/e, Photonics and Semiconductor Nanophysics
18	Cryogenic Scanning Near-Field Optical Microscopy of Quantum Dots in Photonic Crystal Cavities	Matthias Skacel, Marco Francardi, Annamaria Gerardino, B. Alloing, L.H. Li, Andrea Fiore	TU/e, Photonics and Semiconductor Nanophysics
19	Manipulating th charge on a single donor with a Scanning Tunneling Microscope	A.P. Wijnheijmer, J.K. Garleff, K. Teichmann, S. Loth, M. Wenderoth, R. G. Ulbrich, M. Roy, P. A. Maksym, P.M. Koenraad	TU/e, Photonics and Semiconductor Nanophysics
20	Nanoscale potential fluctuations and electrostatic QDs created by interstitial manganese ions in GaMnAs-GaAs heterostructures	A. P. Wijnheijmer, O. Makarovskiy, J. K. Garleff, L. Eaves, R. P. Campion, B. L. Gallagher, P. M. Koenraad	TU/e, Photonics and Semiconductor Nanophysics
21	Many-body exciton states in self assembled quantum dots coupled to a Fermi sea	N. A. J. M. Kleemans, J. van Bree, A. O. Govorov, G. J. Hamhuis, R. Nötzel, A. Yu. Silov, P. M. Koenraad	TU/e, Photonics and Semiconductor Nanophysics
22	Simple and efficient scanning tunneling luminescence detection at low-temperature	J.G. Keizer, J.K. Garleff, P.M. Koenraad	TU/e, Photonics and Semiconductor Nanophysics
23	Atomic scale analysis of self assembled GaAs/AlGaAs quantum dots grown by droplet epitaxy	J.G. Keizer, J. Bocquel, P.M. Koenraad, T. Mano, T. Noda, K. Sakoda	TU/e, Photonics and Semiconductor Nanophysics
24	Structural study of GaSb quantum dots and quantum rings in GaAs with X-STM	R. Pachineela, J. K. Garleff, P. M. Koenraad, R. Young, M. Haynes	TU/e, Photonics and Semiconductor Nanophysics
25	Quantum Tunneling of a Si atom in the GaAs(110) lattice	J. K. Garleff, A.P. Wijnheijmer, C.N. van den Eenden, P. M. Koenraad	TU/e, Photonics and Semiconductor Nanophysics
26	Mn acceptor state and Mn induced resonance in GaAs	J.K. Garleff, A.P. Wijnheijmer, J. van Bree, A. Yu. Silov, W. van Roy, J.-M. Tang, M.E. Flatté, P.M. Koenraad	TU/e, Photonics and Semiconductor Nanophysics
27	Low Temperature Magnetic Force Microscopy (MFM)	S.C.M. Grijsels, J. Bocquel, P.M. Koenraad	TU/e, Photonics and Semiconductor Nanophysics
28	Organic Magnetoresistance: Unraveling frequency dependence and sign changes	P. Janssen*, W. Wagemans, F.L. Bloom, B. Koopmans	TU/e, Physics of Nanostructures
29	Laser-induced magnetization dynamics	K.C. Kuiper, G. Malinowski, R. Lavrijsen en B. Koopmans	TU/e, Physics of Nanostructures
30	EBID of Magnetic Nanostructures	T. Ellis, F. Schoenaker, R. Lavrijsen, B. Barcones, H. Swagten, B. Koopmans (Eindhoven University of Technology), J. de Teresa, R. Cordoba (Universidad de Zaragoza), H. Mulders, P. Trompenaars (FEI Company)	TU/e, Physics of Nanostructures
31	Multiple QW states induced by subsurface nano-reflectors	C.O. Avci, O. Kurnosikov, H.J.M. Swagten, B. Koopmans	TU/e, Physics of Nanostructures
32	Field-induced detrapping: electric-field dependence of charge-carrier mobility in host-guest systems	J. Cottaar, R. Coehoorn, P.A. Bobbert	TU/e, Theory of Polymers and Soft Matter
33	Proton migration mechanism of bias-stress effect	A. Sharma, S. G. J. Mathijssen, M. Kemerink, D. de Leeuw, and P. A. Bobbert	TU/e, Theory of Polymers and Soft Matter
34	Electron-hole recombination in disordered organic semiconductors: Validity of the Langevin formula	J.J.M. van der Holst, F.W.A. van Oost, P.A. Bobbert, R. Coehoorn	TU/e, Theory of Polymers and Soft Matter
35	Surface Modification of Silicon Carbide for Biomimetic Calcium Phosphate Coating: Lesson from a Cryo-TEM Study of Mineralization under an Acidic Langmuir Monolayer	Archan Dey, Paul H. H. Bomans, Chris. J. van den Hoogen, Michel Rosso, Han Zuilhof, Julián Martínez Fernández, Julia Will, Frank A. Muller, Gijsbertus de With & Nico A.J.M. Sommerdijk	TU/e, Laboratory of Materials and Interface Chemistry
36	Light and Shadow structuring of magnetic layers	T. Meijer, J. Beardmore, C.G.C.H.M. Fabrie, E.J.D. Vredenburgt, K.A.H. van Leeuwen	TU/e, Coherence and Quantum Technology
37	Force induced dissociation of protein bonds: experiments and model	MBx group	TU/e, Molecular Biosensors for Medical Diagnostics
38	Orientation of adsorbed myoglobin on (oxidized) polystyrene	MBx group	TU/e, Molecular Biosensors for Medical Diagnostics
39	Polymers based on diketopyrrolopyrrole for efficient organic solar cells	Johan Bijleveld et al.	TU/e, Molecular Materials and Nanosystems
40	A unifying model for the operation of light-emitting electrochemical cells	Stephan van Reenen et al.	TU/e, Molecular Materials and Nanosystems
41	Composition Effect on Electrical Conductivity of PEDOT:PSS Thin Films	Zuhal Dzwileski et al.	TU/e, Molecular Materials and Nanosystems
42	Hybrid solar cells; TiO <sub>2</sub> nanocrystals and P3HT	Veronique Gevaerts et al.	TU/e, Molecular Materials and Nanosystems