

CURRICULUM VITAE

Dr.-Ing. Markus Mohr

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HIGHER EDUCATION

Aug 2017 - now Postdoctoral Researcher
Institute of Functional Nanosystems
Ulm University, Germany
Topics: Measurement of thermophysical properties of metallic alloys under zero gravity | Synthesis and properties of micro-/nanocrystalline diamond

Nov 2011 - July 2017 Ph.D. Student / Graduate Research Associate
Institute of Micro and Nanomaterials
Ulm University, Germany
Ph.D. Thesis: "Neuartige nanostrukturierte Diamantschichten mit optimierten mechanischen, elektrischen und thermischen Eigenschaften" (Novel nanostructured diamond layers with optimized mechanical, electrical and thermal properties)
Grade: very good (magna cum laude)

Oct 2010 - March 2011 Internship (Research and Development)
United Monolithic Semiconductors GmbH
89081 Ulm, Germany

Oct 2005 - Oct 2011 Diplom Elektrotechnik (Dipl.-Ing.)
Ulm University, Germany
Diploma Thesis: "Investigation of Electrical Properties of Doped Nanocrystalline Diamond"
Grade: very good (1.4)

COMMUNITY SERVICE (ALTERNATIVE TO MILITARY DUTY)

Jan 2005 - Sep 2005 Community Service as Janitor
Jugendhaus Waldmühle
87736 Böhen, Germany

PROFESSIONAL TRAINING

Sep 1999 - July 2002 Apprenticeship in Communications Electronics
Jagdbombergeschwader 34, Allgäu
87766 Memmingerberg, Germany

SCHOOL EDUCATION

Sep 2003 - July 2004	13 th class – Faculty of Engineering Upper vocational school (Berufsoberschule), Kempten, Germany
Sep 2002 - July 2003	12 th class – Faculty of Engineering Upper vocational school (Berufsoberschule), Memmingen, Germany
Sep 2001 - July 2002	Preclass of upper vocational school, Memmingen, Germany (evening classes)
Sep 1995 - July 1999	National economy school (Wirtschaftsschule), Memmingen, Germany
Sep 1989 - July 1995	Public elementary school, Heimertingen, Germany

AWARDS/HONOURS

2016/03/10	Brilliant Poster Award, Hasselt Diamond Workshop, SBDD XXI, Belgium
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LANGUAGES

German	mother tongue
English	fluent

LIST OF PUBLICATIONS

2018

V. V. Mitic, H.-J. Fecht, M. Mohr, G. Lazovic, L. Kocic, “*Exploring fractality of microcrystalline diamond films*”, AIP Advances, 8, 075024 (2018), DOI: 10.1063/1.5034469

2017

M. Mohr, “*Neuartige nanostrukturierte Diamantschichten mit optimierten mechanischen, elektrischen und thermischen Eigenschaften*”, Dissertation, Fortschritt-Berichte VDI, 5, 761, VDI Verlag, Düsseldorf (2017)

M. Mohr, M. Mertens, K. Brühne, P. Gluche, H.-J. Fecht, “*Herstellung, Eigenschaften und Anwendung nanokristalliner Diamantschichten*”, Keramische Zeitschrift, 69, 115-121 (2017)

X. L. Hu, L. B. Sun, Q. J. Wu, L. Wang, S. A. Bai, Q. Li, S. Yang, R. Z. Tai, M. Mohr, H.-J. Fecht, L. Q. Wang, D. X. Zhang, J. Z. Jiang, “*Broad band optical band-reject filters in near-infrared regime utilizing bilayer Ag metasurface*”, Journal of Applied Physics, 121, 15:153105 (2017), DOI:10.1063/1.4981894

M. Mohr, A. Behroudj, N. Wiora, M. Mertens, K. Brühne, H.-J. Fecht, “*Fabrication and Characterization of a nanocrystalline diamond membrane pressure sensor*”, Quantum Matter, 6, 41-44, (2017), DOI:10.1166/qm.2017.1395

M. Mohr, L. Daccache, S. Horvat, K. Brühne, T. Jacob, H.-J. Fecht, “*Influence of grain boundaries on elasticity and thermal conductivity of nanocrystalline diamond films*”, Acta Materialia, 122, 92-98, (2017), DOI:10.1016/j.actamat.2016.09.042

2016

N. Wiora, M. Mertens, M. Mohr, K. Brühne, H.-J. Fecht, “*Piezoresistivity of n-type conductive ultrananocrystalline diamond*”, Diamond and Related Materials, 70, 145-150, (2016), DOI:10.1016/j.diamond.2016.09.018

M. Mertens, M. Mohr, K. Brühne, H.-J. Fecht, M. Łojkowski, W. Świąszkowski, W. Łojkowski, “*Patterned hydrophobic and hydrophilic surfaces of ultra-smooth nanocrystalline diamond layers*”, Applied Surface Science, 390, 526-530, (2016), DOI:10.1016/j.apsusc.2016.08.130

M. Mohr, K. Brühne and H.-J. Fecht, “*Thermal conductivity of nanocrystalline diamond films grown by hot filament chemical vapor deposition*”, Physica Status Solidi A: Applications and Materials Science, 213, 2590-2593, (2016), DOI:10.1002/pssa.201600171

M. Mohr, F. Picollo, A. Battiato, E. Benardi, J. Forneris, A. Tengattini, E. Enrico, L. Boarino, F. Bosia, H.-J. Fecht and P. Olivero, “*Characterization of the recovery of mechanical properties of ion-implanted diamond after thermal annealing*”, Diamond and Related Materials, 63, 75-79, (2016), DOI:10.1016/j.diamond.2015.11.008

2015

M. Mertens, M. Mohr, N. Wiora, K. Brühne and H.-J. Fecht, “*N-Type Conductive Ultrananocrystalline Diamond Films Grown by Hot Filament CVD*”, Journal of Nanomaterials, 527025, (2015), DOI:10.1155/2015/527025

2014

M. Mohr, A. Caron, P. Herbeck-Engel, R. Bennewitz, P. Gluche, K. Brühne and H.-J. Fecht, “*Young’s modulus, fracture strength and Poisson’s ratio of nanocrystalline diamond films*”, Journal of Applied Physics, 116, 124308, (2014), DOI:10.1063/1.4896729

Q. Liao, Z. Zhang, X. Zhang, M. Mohr, Y. Zhang, H.-J. Fecht, “*Flexible piezoelectric nanogenerators based on a fiber/ZnO nanowires/paper hybrid structure for energy harvesting*”, Nano Research, 7, 917-928, (2014), DOI:10.1007/s12274-014-0453-8

M. Mohr, P. Gluche, K. Brühne and H.-J. Fecht, “*Stress Control in Nanocrystalline Chemical Vapor Deposition Diamond Layers*”, Quantum Matter, 3, 400-405, (2014), DOI:10.1166/qm.2014.1139

2013

Q. Liao, M. Mohr, X. Zhang, Z. Zhang, Y. Zhang, H.-J. Fecht, “*Carbon fiber-ZnO nanowire hybrid structures for flexible and adaptable strain sensors*”, Nanoscale, 5, 12350-12355, (2013), DOI:10.1039/c3nr03536k

N. Wiora, M. Mertens, M. Mohr, K. Brühne and H.-J. Fecht, “*Synthesis and Characterization of n-type Nitrogenated Nanocrystalline Diamond*”, Micromaterials and Nanomaterials, 15, 96-98, (2013), ISSN: 1619-2486