



Curriculum Vitae

Hans Richter

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Education

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|-------------|---|
| 1959 | Abitur |
| 1959 - 1965 | Study of Materials Science, TU Magdeburg |
| 1971 | Dissertation (Metal Physics), TU Magdeburg |
| 1988 | Habilitation (Semiconductor Technology), Academy of Sciences, Berlin |

Work Experiences

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|--------------------|---|
| 1965/6 | Quality Management, Leichtmetallwerk Rackwitz |
| 1966 - 1971 | Assistant, 1. Physik. Institut , TU Magdeburg |
| 1971 - 1988 | Academy of Sciences of the GDR, IHP Berlin/Frankfurt (Oder) Scientist, Head of Department/Devision, Deputy Director |
| 1978 / 1988 - 1990 | University Lectures, Humboldt-University, Berlin |
| 1988 - 1991 | Scientist |
| 1991 - 2005 | Head of Department, IHP Frankfurt (Oder) |
| 1999 - 2005 | Founder and Director of IHP / BTU Joint Lab, Cottbus University Lectures, BTU Cottbus |
| 2002 | Hon. Prof., BTU Cottbus |
| 2005 - present | Director of Matrix - angewandte Forschung Ltd. & Co. KG, Frankfurt (Oder) CEO of Gesellschaft zur Förderung von Wissenschaft und Wirtschaft - GFWW - e. V., Frankfurt (Oder) |

Memberships

Leibniz-Societät der Wissenschaften zu Berlin (Election 2002)
Deutsche Physikalische Gesellschaft
Gesellschaft zur Förderung von Wissenschaft und Wirtschaft -
GFWW - e. V.
Leibniz -Institut für interdisziplinäre Studien, Berlin

Boards / Committees

Member of SEMI's European ISS - Committee, Brussels
Executive Board Member
of European Materials Research Society (E-MRS), Strasbourg
E-MRS Vice President, 2009 - 2014

Research Interests

Defects in Semiconductors
Defect Engineering and Gettering
Semiconductor Materials and Technologies
Si-based Photovoltaics

Scientific Publications

more than 170

2011: "Material effects in manufacturing of silicon based
solar cells and modules"
Phys. Status Solidi C 8, No. 3, 871 – 874, 2011
"Scaling properties of ballistic nano-transistors"
Nanoscale Research Letters, 2011, 6:365
"Materials for Key Enabling Technologies"
E-MRS / ESF (MatSEEC) Report, April 2011, Strasbourg
"A Quantitative Model for Quantum Transport in
Nanotransistors"
NANOSYSTEMS: PHYSICS, CHEMISTRY, MATHEMATICS,
2013, 4 (6), P. 800–809

Presentations in Conferences

more than 200

2013: "Silicon for Key Enabling Technologies"
IME - CAS, Beijing, December 2013

Patents

38

Other Activities

- Technology Politics
- Leader of the Asia Invest Project SELECT-IT -
Sino-European Liaison Enabling Collaborations and Trade
in Information Technology, (EC, 2005 - 2006)
- Founder of the Conference Series "Gettering and Defect
Engineering in Semiconductor Technology - GADEST"
(biannual since 1985)
- Member of the Supervisory Board, Silicon Sensor AG
(2002 - 2007)
- Member of the Scientific Advisory Council, UBIN AG, since 2010