

Sigurd Wagner

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Research Interests

Wagner is helping to lay the foundations for the new industry of macroelectronics by developing concepts, materials, devices, and processes. Because the integrated circuits of macroelectronics are made on large surfaces of glass, metal, or plastic, they are not confined to the size of the crystalline wafers of conventional integrated circuits. Large-area electronics began with thin film solar cells, grew to an industry with flat panel displays, and now is branching out into sensitive skin, mechatronic materials, and e-textiles.

Areas of Expertise

large-area electronics, active electronic skin, e-textiles; amorphous and microcrystalline silicon on flexible foil substrates; printing of active electronics; microfluidic chips.

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