

eBook Information

Liquid Metal Alloys in Electronics

David J. Fisher

PDF eBook / PDF eBook DRM Free

The book focusses on such issues as self-assembled monolayers, energy-harvesting, reconfigurable and flexible antennae, sensors, conformable electronics, the creation of non-wetting super-hydrophobic or superlyophobic surfaces, vacuum-assisted infiltration techniques, development of microfluidics, deformable electrodes and wearable electronics.

Keyword: Liquid Metals, Gallium-Indium Alloys, Galinstan, EGaIn, Self-Assembled Monolayers, Energy-Harvesting, Reconfigurable Antennae, Sensors, Conformable Electrodes, Stretchable Wires and Interconnects, Self-Healing Circuits, Gallium-Lyophilic Surfaces, Wettability of Liquid Metal, Substrate Topology, Selective Wetting Deposition Technique, Gallium-Indium Droplets on Thin Metal Films, Substrate Texture upon Wetting, Dielectrophoresis, Microfluidics, Deformable Electrodes, Wearable Electronics, Flexible Antennae, Surface Oxidation of Alloys

ISBN 13: 978-1-64490-069-7, **Publication Date:** 2020 (3/15/2020)

Direct URL: <https://www.mrforum.com/product/liquid-metal-lloys>

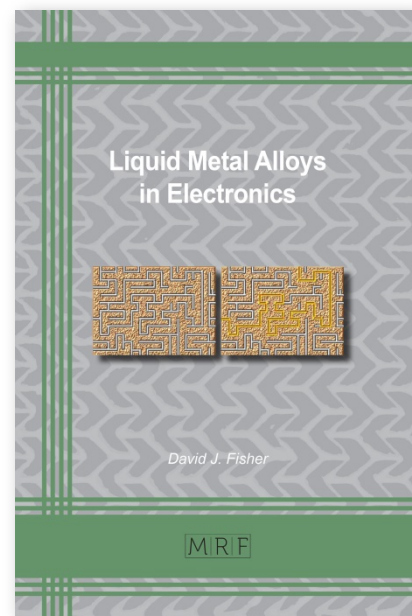
136 pages, PDF eBook DRM Free, USD 125.00

Materials Research Foundations Vol. 70 / **BISAC:** TEC021000 / **BIC/Thema:** TGM

Imprint: Materials Research Forum LLC, *Publisher's sales rights are Worldwide*

Summary:

Liquid gallium-based alloys are of rapidly increasing interest in electronics because they combine the high electrical conductivity of metals with the ease of manipulation and reconfiguration of liquids. The book focusses on such issues as self-assembled monolayers, energy-harvesting, reconfigurable and flexible antennae, sensors, conformable electronics, the creation of non-wetting super-hydrophobic or superlyophobic surfaces, vacuum-assisted infiltration techniques, development of microfluidics, deformable electrodes and wearable electronics. The book references 270 original resources and includes their direct web link for in-depth reading.



Book Information

Liquid Metal Alloys in Electronics

David J. Fisher

Handbook / color print, paperback

The book focusses on such issues as self-assembled monolayers, energy-harvesting, reconfigurable and flexible antennae, sensors, conformable electronics, the creation of non-wetting super-hydrophobic or superlyophobic surfaces, vacuum-assisted infiltration techniques, development of microfluidics, deformable electrodes and wearable electronics.

Keyword: Liquid Metals, Gallium-Indium Alloys, Galinstan, EGaIn, Self-Assembled Monolayers, Energy-Harvesting, Reconfigurable Antennae, Sensors, Conformable Electrodes, Stretchable Wires and Interconnects, Self-Healing Circuits, Gallium-Lyophilic Surfaces, Wettability of Liquid Metal, Substrate Topology, Selective Wetting Deposition Technique, Gallium-Indium Droplets on Thin Metal Films, Substrate Texture upon Wetting, Dielectrophoresis, Microfluidics, Deformable Electrodes, Wearable Electronics, Flexible Antennae, Surface Oxidation of Alloys

ISBN 13: 978-1-64490-068-0, **Publication Date:** 2020 (3/15/2020)

Direct URL: <https://www.mrforum.com/product/liquid-metal-lloys>

136 pages, color print, paperback, USD 125.00

Materials Research Foundations Vol. 70 / **BISAC:** TEC021000 / **BIC/Thema:** TGM

Imprint: Materials Research Forum LLC, *Publisher's sales rights are Worldwide*

Summary:

Liquid gallium-based alloys are of rapidly increasing interest in electronics because they combine the high electrical conductivity of metals with the ease of manipulation and reconfiguration of liquids. The book focusses on such issues as self-assembled monolayers, energy-harvesting, reconfigurable and flexible antennae, sensors, conformable electronics, the creation of non-wetting super-hydrophobic or superlyophobic surfaces, vacuum-assisted infiltration techniques, development of microfluidics, deformable electrodes and wearable electronics. The book references 270 original resources and includes their direct web link for in-depth reading.

