

布鲁尔科技产品展示与交流会

布鲁尔科技 (Brewer Science) 上海代表处张淑兰 (Landy Zhang) 女士拟于6月27日 (周三) 下午2点在清华大学微电子所308会议室进行一个产品展示和交流会。欢迎感兴趣的老师和同学参加。主要包括:

1. Brewer Science Overview
2. Chemical solution for base (KOH/TMAH) or acid (HF) etching
3. Chemical solution for Lift-Off
4. Chemical solution for temporary wafer bonding
5. Equipment (Spin coater & hotplate)
6. Questions & Answers

下面是布鲁尔科技的简单介绍及其主要产品列表。

Brewer Science

Brewer Science manufactures and distributes critical semiconductor chemicals, specialty chemicals for optoelectronic and MEMS applications, and semiconductor equipment. Coating services are also offered for prototype or moderate volume production. Brewer Science has been serving a global customer base since 1981.

ARC® Products

Anti-reflective coatings are designed for semiconductor photolithography processes that need critical dimension control, a wider process window, and easy etch integration during patterning. Products include (by wavelength):

- 193nm material – Designed to meet the emerging needs of the 193nm photo lithography process.
- 248nm material – Exceptional products that permit sub-0.1μm lithography using DUV processes.
- 365nm material – Extends the usability of i-Line equipment by reducing critical dimension.
- Gap Fill material – Highly planarizing materials to minimize iso/dense bias. Available in dry etch and wet-developable formulations.
- ARC® ancillary products – ARC® Cleaner and EBC.

Specialty Materials Products

Novel materials for optoelectronics, compound semiconductor, and MEMS applications. Products include:

- WaferBOND™ Coating – For temporary wafer bonding applications.
- ProTEK® coatings – Wet-etch sacrificial protective coatings.
- ProLIFT™ layers – 400°C resistant polyimide for metal lift-off applications.
- T-Polyim™ layers – Transparent polyimide ideally suited as passivation layers.
- DARC®/PSK™ coatings – Spin-applied coatings designed to block light in the visible NIR range.
- PMMA – Polymeric coatings used for a variety of microelectronic applications such as electronic beam and x-ray lithography. It can also be used for some wafer to wafer bonding applications.

Prototype & Moderate Volume Coating Services

Brewer Science Specialty Materials Technical Support provides:

- Material characterization and process development of Specialty Materials products.
- Assistance with Tool Selection and Module Optimization
- Prototype and custom coating services for flat panel displays, color filters, image sensors, and other novel applications

Equipment

- Cee® (Cost Effective Equipment) – Spin-coating, baking, and developing processing equipment.
- EdgeWRAP™- System enables the seamless coating of substrate edges by simultaneously applying material to the top, edge, and the bottom side-rim of the substrate, protecting sensitive structures, and the substrate edge, during chemical wafer etching processes.

布鲁尔科技特殊材料产品目录

MEMS 材料			
产品类型	产品名称	详细介绍	推荐应用
湿法蚀刻保护层	ProTEK® B2	<ul style="list-style-type: none"> •碱性蚀刻的保护涂层 (KOH, TMAH, NaOH). •第一代ProTEK®涂层, 安全型溶剂 	<ul style="list-style-type: none"> •背面V型槽深度蚀刻时用于保护晶片的正面 •用于晶片减薄工艺中正面保护
湿法蚀刻保护层	ProTEK® A2-22	<ul style="list-style-type: none"> •酸性蚀刻的保护涂层 (49%HF或者BOE) •非光敏性, 不能光刻, 大面积保护 	<ul style="list-style-type: none"> •用于49%HF或者BOE腐蚀工艺中在去除背面腐蚀终止层时保护晶片的正面 •去除背面硬掩膜时保护晶片的正面
湿法蚀刻保护层	ProTEK® Primer	增粘剂, 与ProTEK®B1和ProTEK®B2搭配使用	
湿法蚀刻保护层剥离液	ProTEK® Remover 100	用于ProTEK®B1和ProTEK®B2系列 材料的剥离	
湿法蚀刻保护层剥离液	ProTEK® Remover 200	用于ProTEK® A2系列材料的剥离	
Lift-off 牺牲层	ProLIFT™ 100 coatings	耐高温的牺牲层	
Lift-off 牺牲层	ProLIFT™ Remover 100	<ul style="list-style-type: none"> •用做ProLIFT™100系列材料的去除液或显影液 •显影液, 对Al无伤害 	

光电子材料			
产品类型	产品名称	详细介绍	推荐应用
钝化层, 平滑层	T-Polyim™ Layers	T-11 T-10001 T-15010 T-20020	<ul style="list-style-type: none"> •在集成电路中用做钝化层, 高透明性 •平滑层—非平坦化材料

III、V 族电路			
产品类型	产品名称	详细介绍	推荐应用
硅片临时粘合材料	WaferBOND™	应用于硅片临时粘合的旋涂聚合物	<ul style="list-style-type: none"> •III、V 族晶片 •在机械减薄或者化学减薄过程中起到支撑作用
硅片临时粘合材料剥离液	WaferBOND™ Remover	WaferBOND™材料的剥离液	

Trust • Win-Win • Freedom • Excellence • Commitment

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