

Contents

1. Introduction	9
2. Role of photoresist in photolithography technique	13
2.1. Environmental factor	14
2.2. Surface preparation	14
2.3. Coating and drying	16
3. Two dimensional material in optical lithography	19
3.1. Graphene	20
3.2. Other 2D materials	21
4. Diffraction, absorption and reflection in photolithography processes	25
5. Wet chemical etching of quartz	29
5.1. Structure of quartz crystal and its influence on etching	31
5.2. Mechanism of wet chemical etching of quartz.....	32
5.3. Experimetal details of wet chemical etching	33
6. Conclusions	35
Bibliography	37