

Supplemental material for abstract id 5472 : "PEALD Growth of Doped Indium Oxide Films with Control over The Film Composition And Properties by Supercycle Approach Implementation"

Schematic Diagram of Multipulse and Supercycle Process Used to Deposit Doped In_2O_x Films

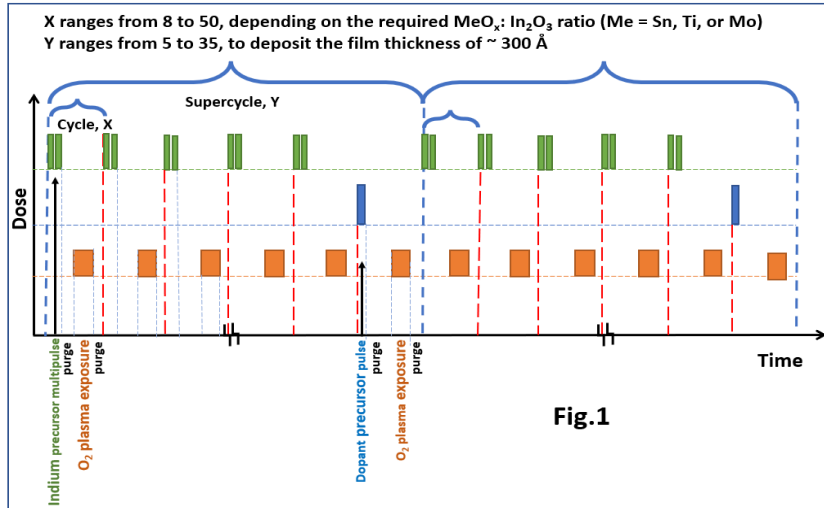
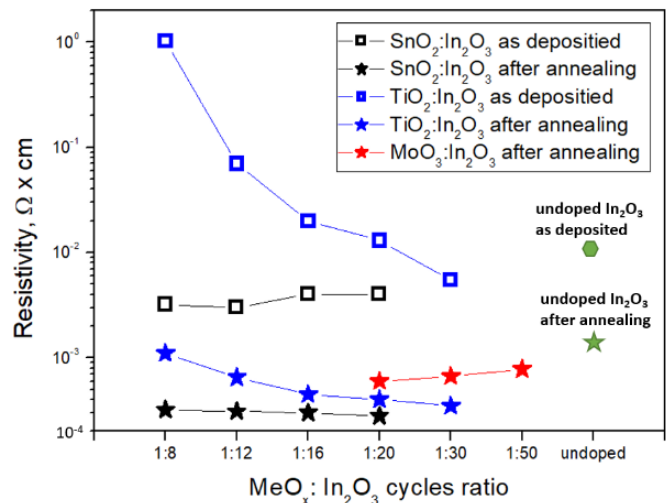
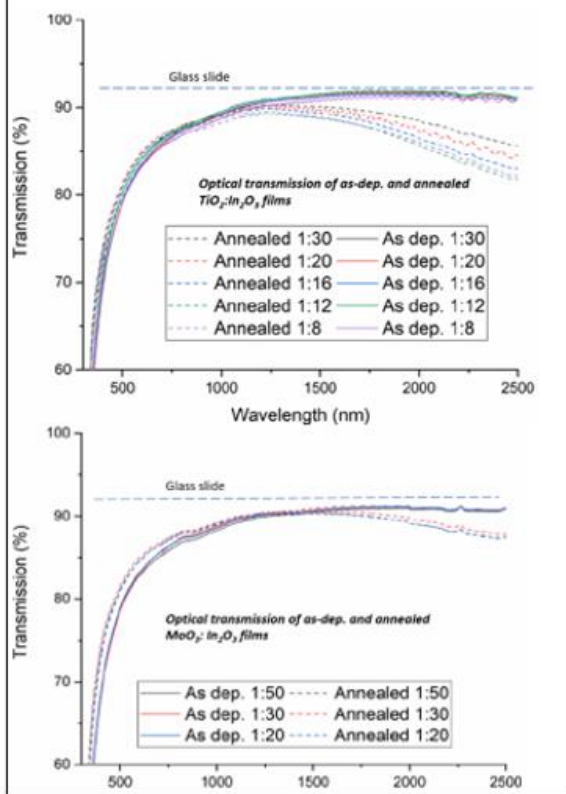
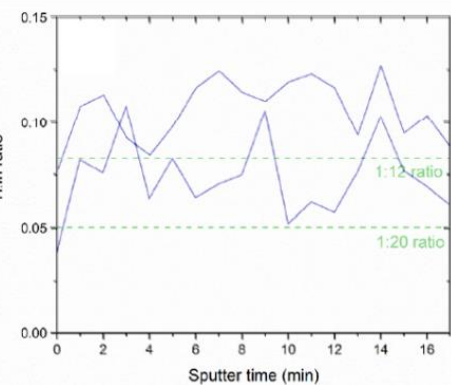
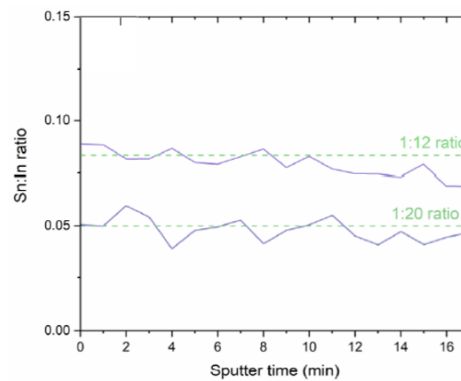
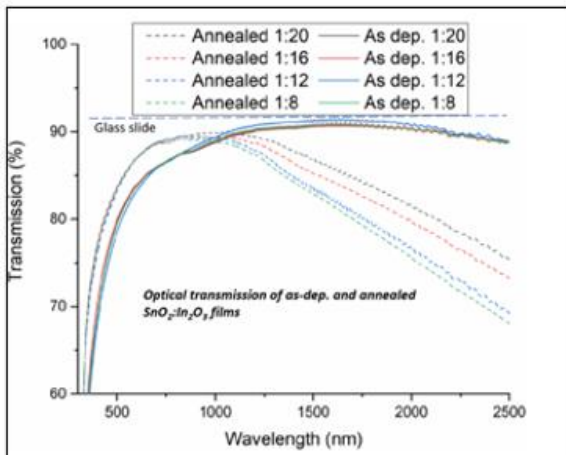


Table 1 Growth per Cycle for Doped In_2O_3 Films

Cycles ratio	GPC, $\text{\AA}/\text{cycle}$, experimental			GPC, $\text{\AA}/\text{cycle}$, rules of mixture		
	$\text{SnO}_2:\text{In}_2\text{O}_3$	$\text{TiO}_2:\text{In}_2\text{O}_3$	$\text{MoO}_3:\text{In}_2\text{O}_3$	$\text{SnO}_2:\text{In}_2\text{O}_3$	$\text{TiO}_2:\text{In}_2\text{O}_3$	$\text{MoO}_3:\text{In}_2\text{O}_3$
1:8	1.25	1.08		1.253	1.143	
1:12	1.27	1.12		1.246	1.169	
1:16	1.26	1.14		1.242	1.183	
1:20	1.25	1.16	1.26	1.24	1.192	1.191
1:30		1.17	1.21		1.205	1.204
1:50			1.24			1.214

Table 2 Growth per Cycle for Pure Materials

Material	GPC, $\text{\AA}/\text{cycle}$
In_2O_3	1.23
SnO_2	1.44
TiO_2	0.44
MoO_3	0.41



References:

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