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LAMPIRAN

Lampiran 1. Tabel hasil EDX pada permukaan film Cs@AuNPs/Gly

Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Atomic %	Standard Label
C	K series	42.07	0.42071	54.26	0.39	63.77	C Vit
O	K series	40.95	0.13779	39.55	0.38	34.90	SiO2
Cl	K series	4.85	0.04236	2.70	0.06	1.07	NaCl
Au	M series	5.57	0.05567	3.49	0.18	0.25	Au
Total:				100.00		100.00	

Lampiran 2. Tabel hasil EDX Crossection pada film Cs@AuNPs/Gly

Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Atomic %	Standard Label
C	K series	23.86	0.23864	50.36	0.48	63.65	C Vit
O	K series	24.01	0.08078	37.30	0.46	35.40	SiO2
Au	M series	8.95	0.08949	12.33	0.38	0.95	Au
Total:				100.00		100.00	

Lampiran 3. Tabel hasil EDX pada permukaan film Cs@F-GNP/Gly

Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Atomic %	Standard Label
C	K series	44.14	0.44140	59.56	0.42	66.24	C Vit
O	K series	30.18	0.10155	40.44	0.42	33.76	SiO2
Total:				100.00		100.00	

Lampiran 4. Tabel hasil EDX Crossection pada film Cs@F-GNP/Gly

Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Atomic %	Standard Label
C	K series	52.70	0.52705	65.12	0.45	71.32	C Vit
O	K series	23.31	0.07843	34.88	0.45	28.68	SiO2
Total:				100.00		100.00	

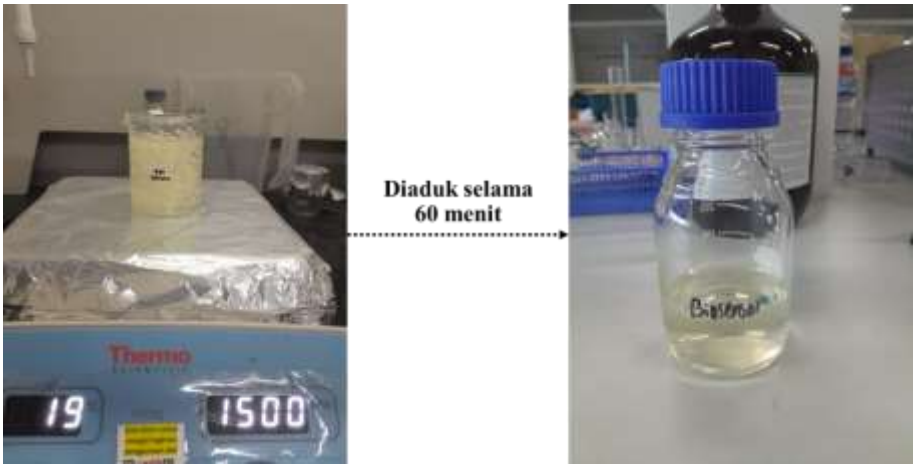
Lampiran 5. Tabel hasil analisis sensitivitas sensor yang didoping dengan F-GNP.

JENIS SENSOR	TEKANAN (kPa)	TEGANGAN OUTPUT (mV)	SENSITIVITAS (Mv/kPa)
Doping sensing layer	0-60	240	4,77 ± 0,2
Modify sensing layer	0-60	259,6	4,31 ± 0,3
Modify electrode (Cs@F-GNP/Gly)	0-60	233,5	3,77 ± 0,1
Modify electrode (Cs@Gly)	**0-60**	**331**	**4,98 ± 0,1**

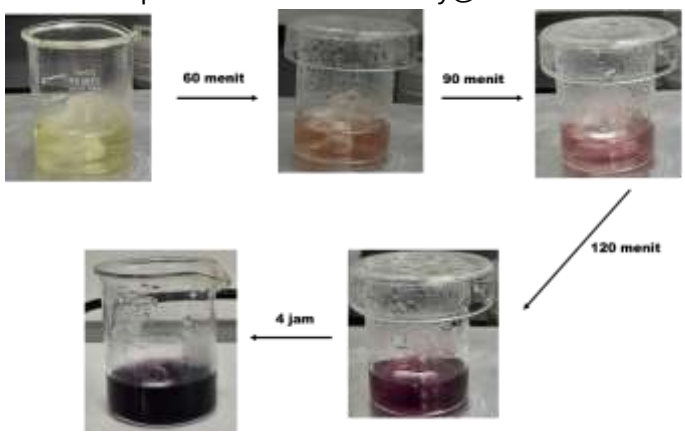
Lampiran 6. Tabel hasil analisis sensitivitas sensor yang didoping dengan AuNPs.

JENIS SENSOR	TEKANAN (kPa)	TEGANGAN OUTPUT (mV)	SENSITIVITAS (Mv/kPa)
Doping sensing layer	0-60	396,5	7,54 ± 0,4
Modify sensing layer	0-60	307	5,77 ± 0,3
Modify electrode (Cs@AuNPs/Gly)	0-60	290,6	4,95 ± 0,1
Modify electrode (Cs@Gly)	**0-60**	**488,5**	**8,09 ± 0,2**

Lampiran 7. Proses pembuatan larutan Cs/Gly

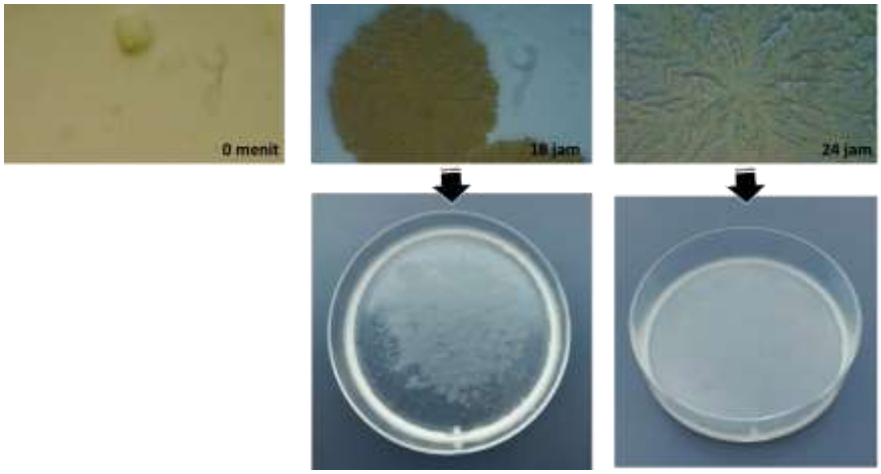


Lampiran 8. Proses pembuatan larutan Cs/Gly@AuNPs

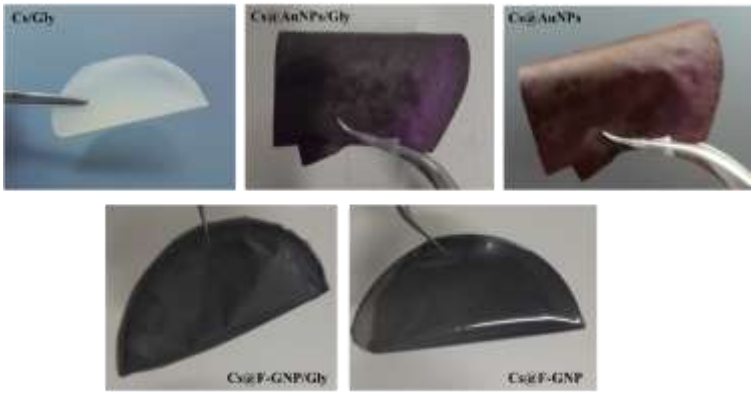


Lampiran 9. Proses pembuatan larutan Cs/Gly@F-GNP

Lampiran 10. Proses pengeringan sampel selama 24 jam



Lampiran 11. Hasil pengeringan film sensor



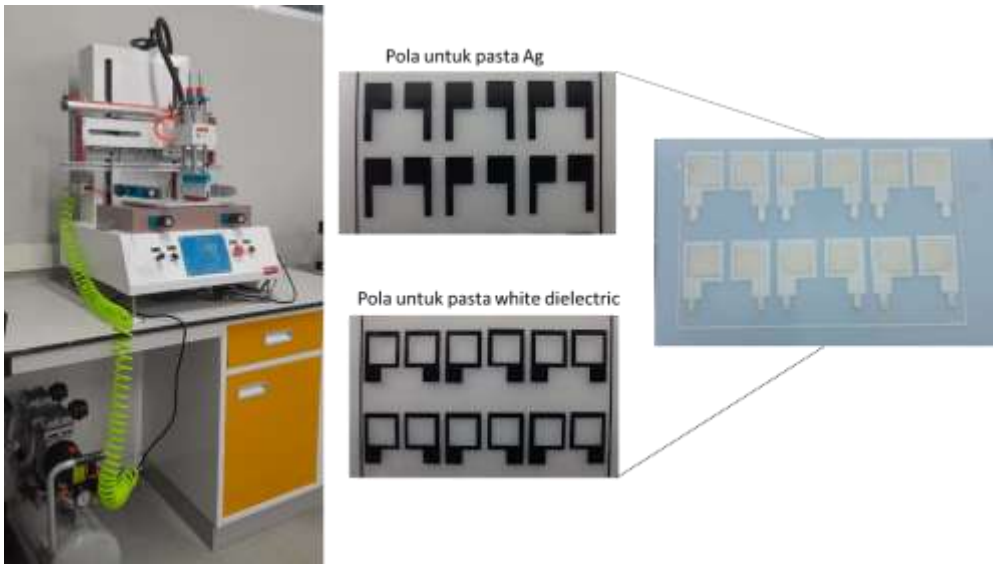
Lampiran 12. Proses karakterisasi mikroskop digital dan SEM *Crossection*

Proses identifikasi morfologi film dengan mikroskop optic digital

Proses pematahan film sensor dengan menggunakan nitrogen cair untuk SEM Crossection

Proses preparasi sampel untuk SEM Crossection

Lampiran 13. Dokumentasi alat *screen printer*



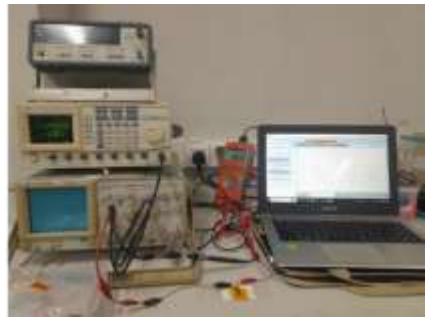
Lampiran 14. Proses karakterisasi dengan bruker Dektak-XT Profilometer

Preparasi sampel

Proses Penyesuaian jarum Profilometer pada sampel

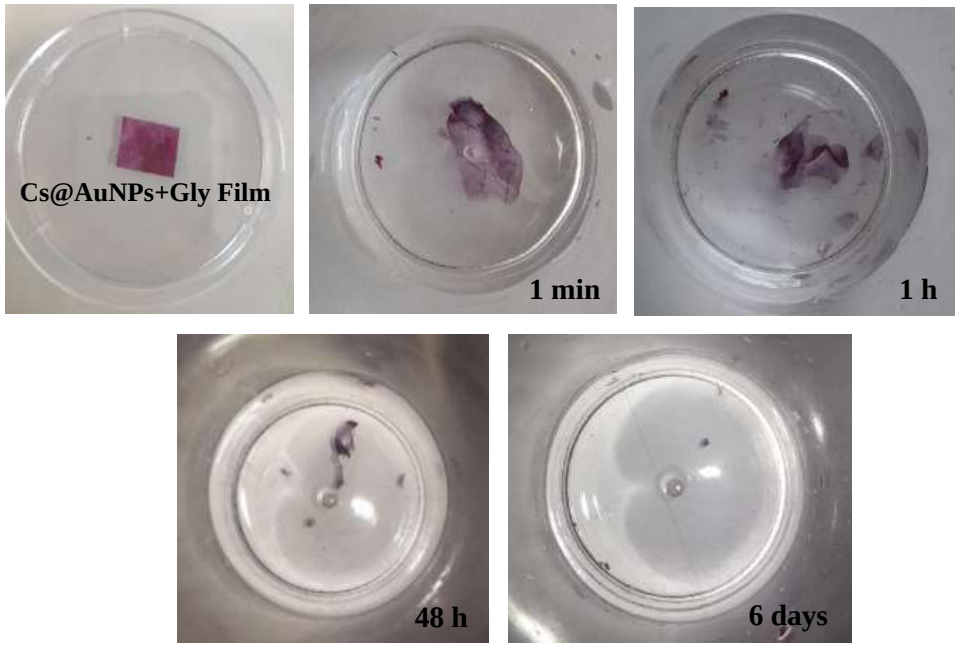
Hasil Pengukuran

Lampiran 15. Dokumentasi proses karakterisasi sifat dielektrik dan piezoelektrik sensor



Lampiran 16. Uji Kinerja

Lampiran 17. Proses degradasi film sensor



Lampiran 18. Prototipe pengujian sensitivitas