

Biogenic fabrication of gold nanoparticles sensor for detection of Fe³⁺ ion using smartphone and machine learning

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Keywords: gold nanoparticles; plant extract; smartphone; machine learning; iron ion; biogenic sensor.

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Supporting Information

Table S1. XRD data of EB-AuNPs

No.	2 θ (deg)	θ (Radian)	Cos θ (deg)	FWHM (degree)	β radian	Crystalline size (nm)	Interplanar spacing 'd' (Å)	h k l Identified from peak	h ² +k ² +l ²	Lattice const. 'a' from 'd' Å	Cell volume Å ³
1	38.1773	0.333159792	0.94501371	1.1058	0.01929985	7.60221835	2.35662	1 1 1	3	4.08178557	68.0065212
2	44.2595	0.386237	0.92633316	1.7233	0.03007726	4.97653357	2.04483	2 0 0	4	4.08966	68.4008678
3	64.6628	0.564289381	0.84496886	1.525	0.02661627	6.16516191	1.4411	2 2 0	8	4.07604633	67.7200601
4	77.5417	0.676678986	0.77965666	1.48	0.02583087	6.88477781	1.2301	3 1 1	11	4.07978015	67.9063337

Editors and reviewers can access data and code via following link:

https://drive.google.com/drive/folders/1tQyQl5mwPFAykSaXsfDMMOPpbCy_dPRA?fbclid=IwAR3-7442iYdZfW0O3MXQPqufT5_u9_0s1xYs3vAHluyk_dKjOuZG4NrT1v0_aem_AeF_mb2biOu5oJelm1u5peqz0oXL0ksO1IMZvWwxyOsfDPpBAbHKMojdUisTh7OkG29XtC1BM2i8JD1tQNvoAxeH