

Supplementary Information

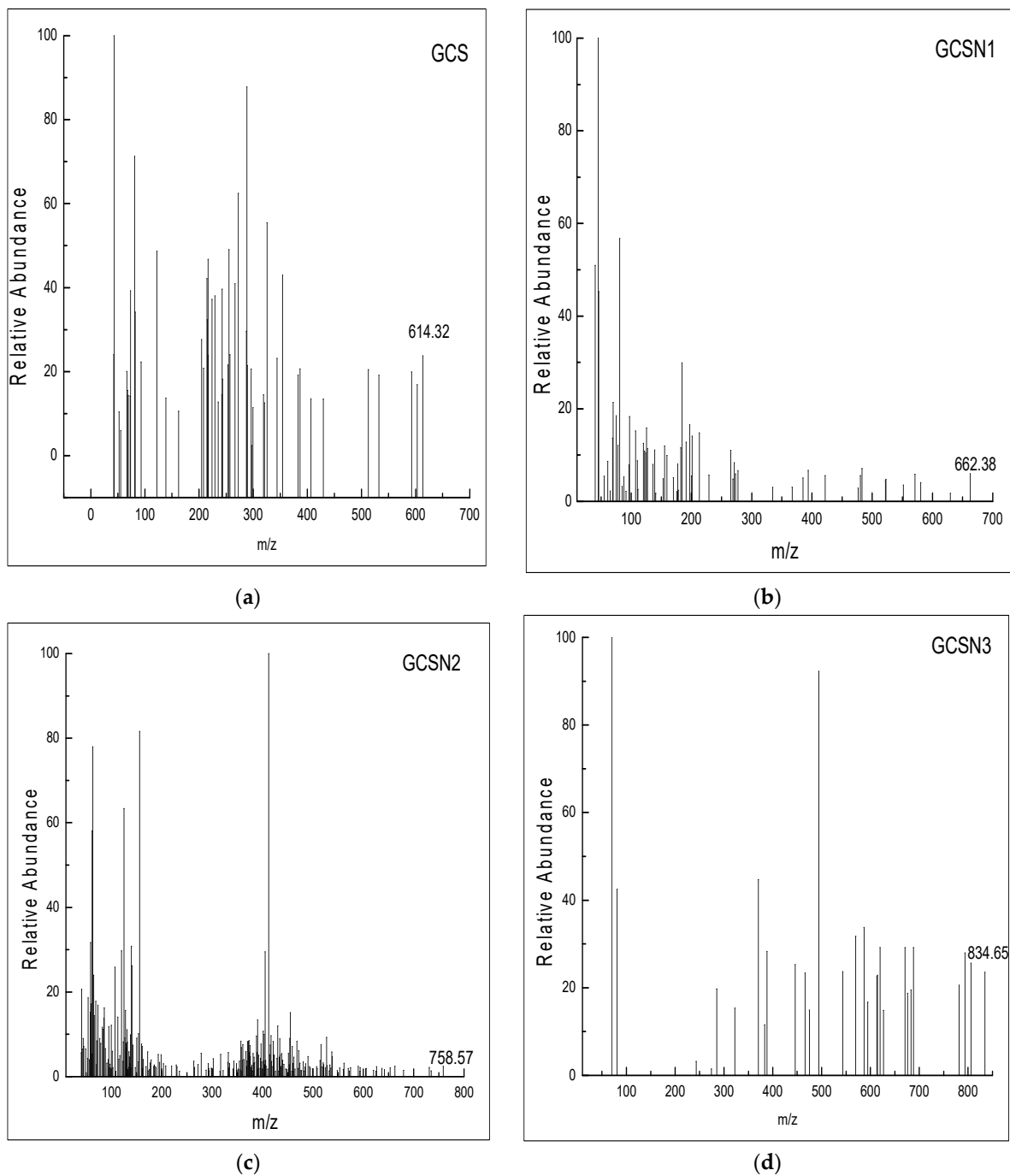


Figure S1. Mass spectra of the single crystals (a) GCS, (b) GCSN1, (c) GCSN2 and (d) GCSN3.

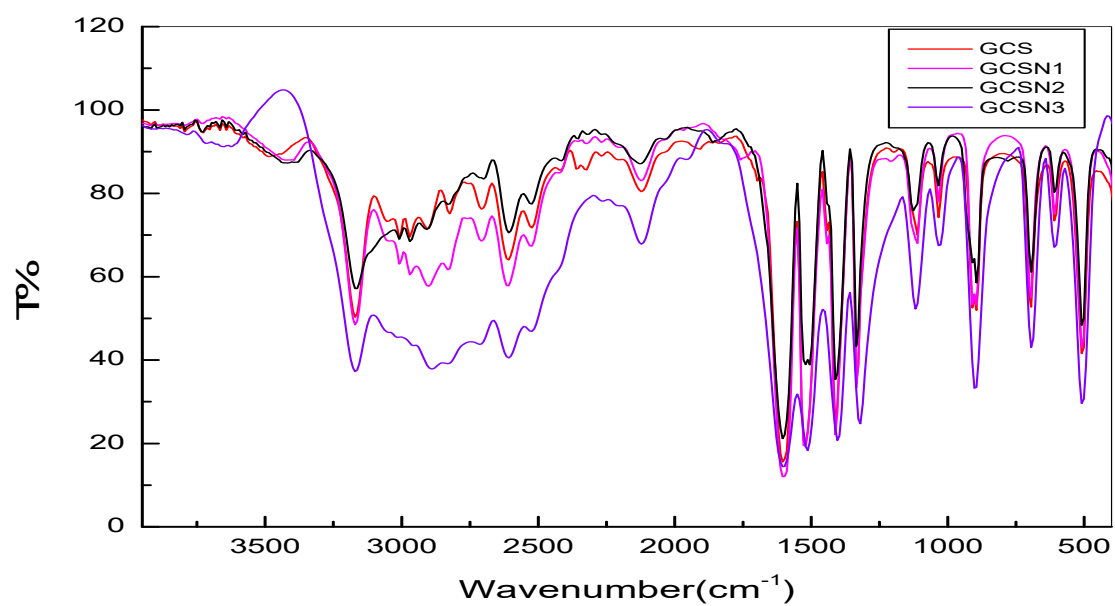


Figure S2. FTIR spectra of the single crystals GCS, GCSN1, GCSN2 and GCSN3

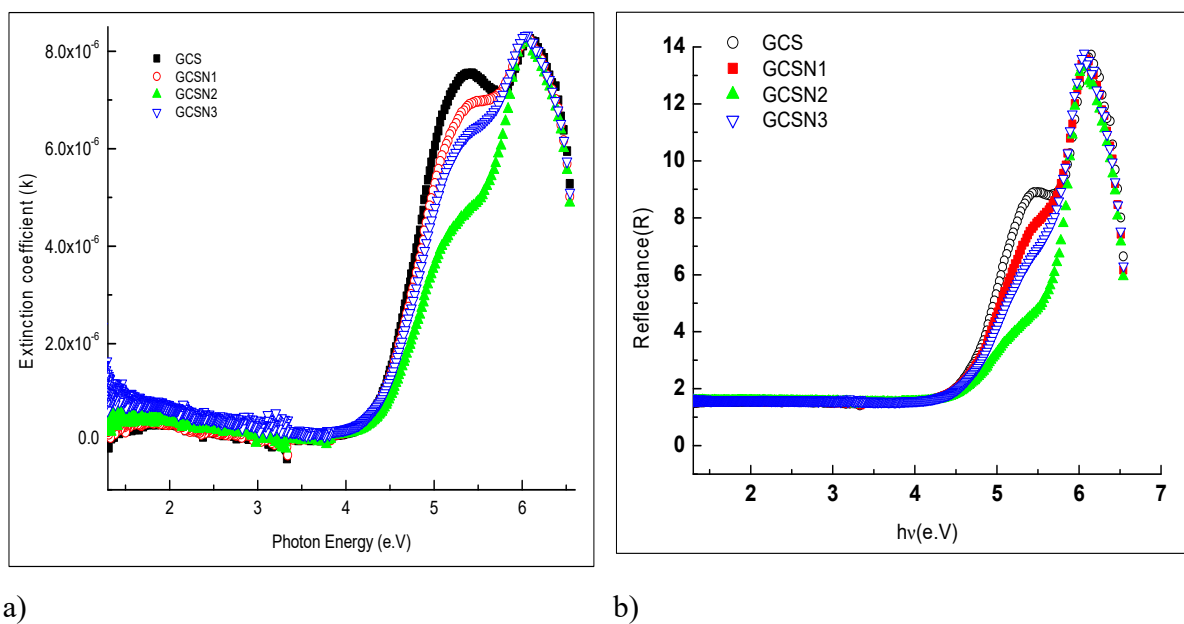


Figure S3. Plot extinction coefficient (k) a) and reflectance versus b) photon energy (eV) of GCS, GCSN1, GCSN2, and GCSN3

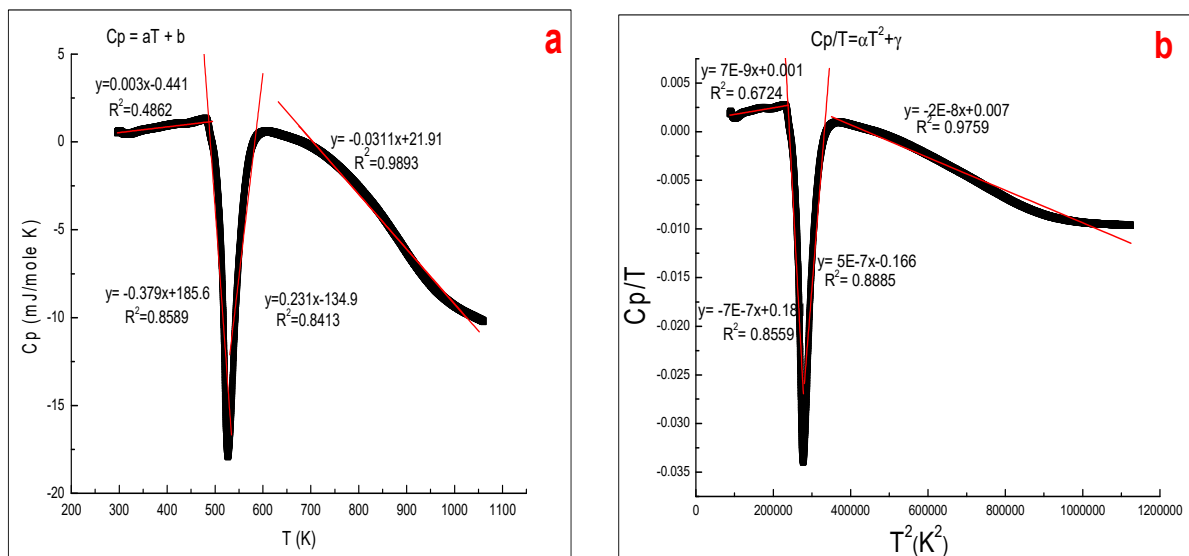


Figure S4. DSC curves for GCS crystals: a. specific heat capacity versus T , b. C_p/T versus T^2

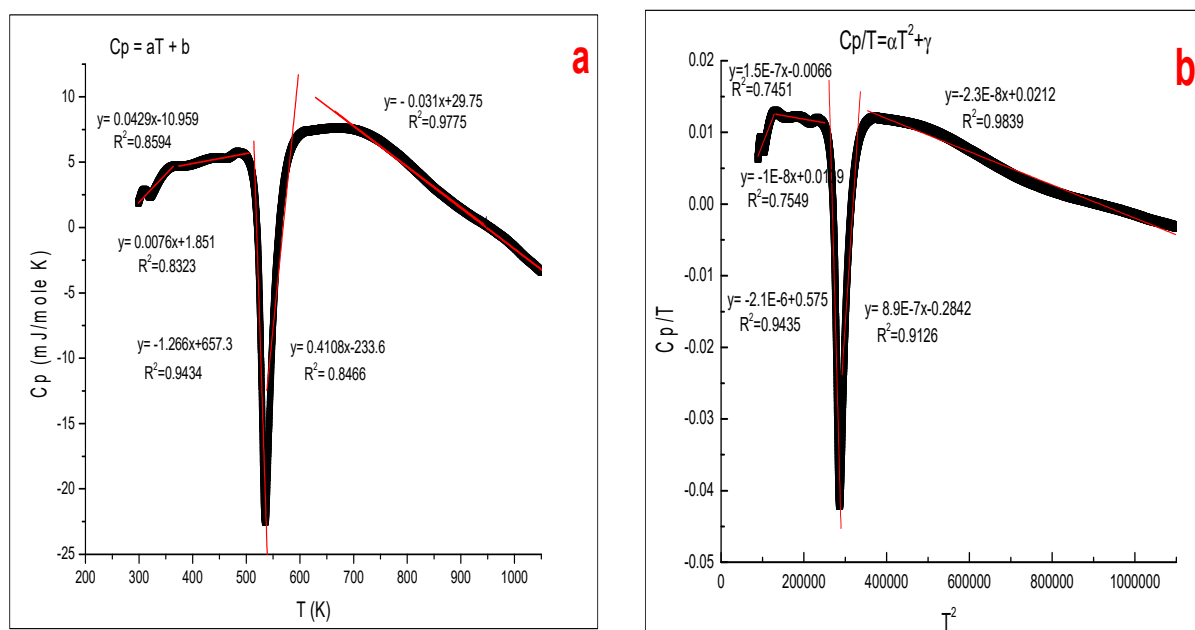


Figure S5. DSC curves for GCSN1 crystal: a. specific heat capacity versus T , b. C_p/T versus T^2

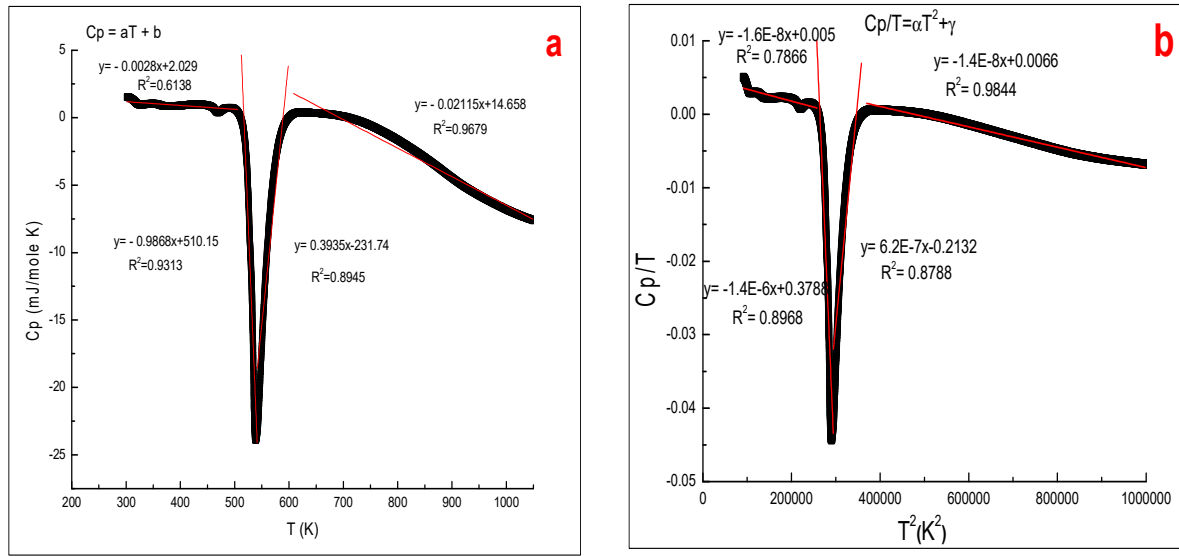


Figure S6. DSC curves for GCSN2 crystal: a. specific heat capacity versus T, b. C_p/T versus T^2

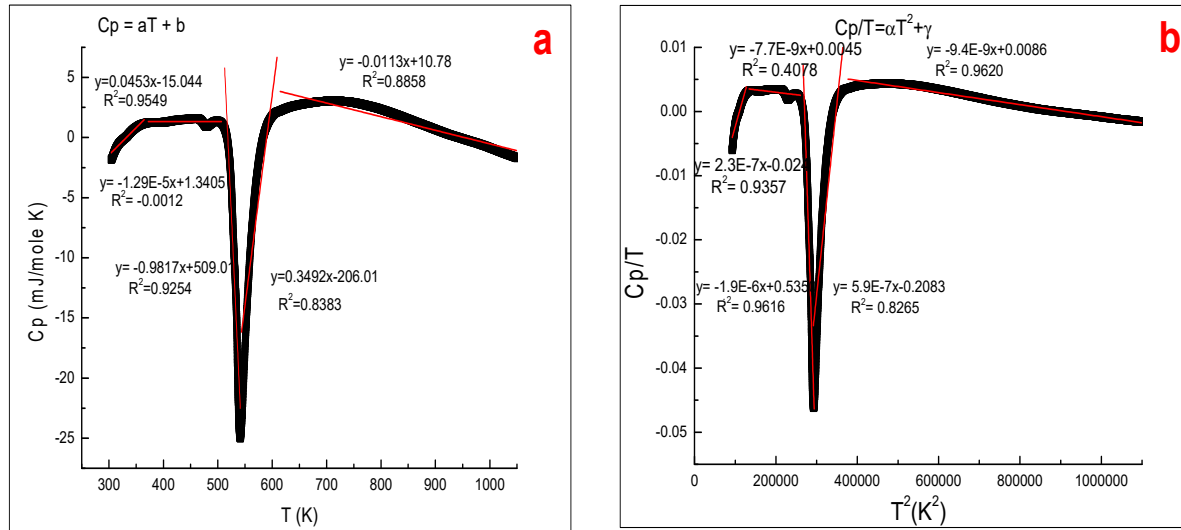


Figure S7. DSC curves for GCSN3 crystal: a. Specific heat capacity versus T, b. C_p/T versus T^2

Table S1. Indexed PXRD patterns of GCS, GCSN1, GCSN2 and GCSN3 single crystals.

	$2\theta_{(EXP)}$	$2\theta_{(calc.)}$	$d(A)_{(EXP.)}$	$d(A)_{(calc.)}$	(hkl)	FWHM	Intensity %
GCS	14.793	14.694	5.984	6.024	(1 1 1)	0.10816	16.5
	18.948	19.189	4.680	4.622	(1 1 2)	0.19770	10.7
	20.110	20.148	4.412	4.404	(1 3 0)	0.22609	6.3

	21.757	21.573	4.081	4.116	(1 3 1)	0.12424	5.7
	23.947	23.863	3.713	3.726	($\bar{1}$ 3 2)	0.20968	28.1
	25.301	25.460	3.517	3.492	($\bar{2}$ 0 2)	0.11876	26.4
	29.225	29.358	3.053	3.040	($\bar{1}$ 1 4)	0.17638	15.2
	29.850	29.920	2.991	2.984	($\bar{2}$ 1 3)	0.16647	100
	35.453	35.436	2.530	2.531	(3 0 1)	0.23238	13.5
	36.570	36.556	2.455	2.456	($\bar{2}$ 5 1)	0.14855	15.9
	39.091	39.072	2.302	2.304	($\bar{3}$ 1 3)	0.23715	5.7
GCSN1	14.933	14.694	5.928	6.024	(1 1 1)	0.10397	20.8
	19.103	19.189	4.642	4.622	(1 1 2)	0.18306	22.7
	20.241	20.148	4.384	4.404	(1 3 0)	0.22134	11.9
	24.049	23.863	3.698	3.726	($\bar{1}$ 3 2)	0.14705	49.2
	25.412	25.460	3.502	3.492	($\bar{2}$ 0 2)	0.16699	7.3
	28.574	28.603	3.121	3.119	($\bar{2}$ 3 1)	0.33073	16.5
	29.367	29.358	3.039	3.040	($\bar{1}$ 1 4)	0.37904	24.9
	29.655	29.920	2.981	2.984	($\bar{2}$ 1 3)	0.22498	100
	35.506	35.436	2.526	2.531	(3 0 1)	0.26609	15.8
	36.687	36.556	2.448	2.456	($\bar{2}$ 5 1)	0.44061	14.1
	42.999	42.908	2.101	2.10606	(2 5 3)	0.19093	5
GCSN2	14.525	14.770	6.094	5.993	(1 0 2)	0.05715	38.9
	21.722	21.741	4.088	4.084	(2 $\bar{1}$ 2)	0.19028	21.5
	25.250	25.338	3.524	3.512	(0 $\bar{3}$ 1)	0.20217	100
	29.250	29.241	3.051	3.052	(1 $\bar{3}$ 2)	0.24578	32
	29.812	29.792	2.995	2.997	(2 0 4)	0.42668	11.3
	30.098	30.095	2.967	2.967	(2 3 2)	0.22946	7.6
	35.834	35.808	2.504	2.506	(4 $\bar{1}$ 0)	0.18380	13
	39.029	39.097	2.306	2.302	(2 2 5)	0.18239	53
	44.347	44.398	2.041	2.038	($\bar{4}$ 0 3)	0.26253	5.7

	56.897	56.881	1.617	1.617	$(\bar{5} \ \bar{3} \ 3)$	0.10013	6.8
	64.723	64.747	1.439	1.438	$(6 \ 5 \ 3)$	0.26932	2.2
GCSN3	14.543	14.770	6.086	6.094	$(1 \ 0 \ 2)$	0.14304	5.3
	21.809	21.844	4.072	4.065	$(\bar{2} \ 1 \ 1)$	0.18951	44.1
	25.309	25.338	3.516	3.512	$(0 \ \bar{3} \ 1)$	0.19153	100
	29.306	29.241	3.045	3.052	$(1 \ \bar{3} \ 2)$	0.19805	19.1
	29.893	29.792	2.987	2.997	$(2 \ 0 \ 4)$	0.37809	9.2
	30.137	30.095	2.963	2.967	$(2 \ 3 \ 2)$	0.21642	11
	33.623	33.537	2.663	2.670	$(\bar{3} \ 2 \ 1)$	0.18114	7.2
	35.915	35.808	2.498	2.506	$(4 \ \bar{1} \ 0)$	0.21649	30.4
	39.070	39.097	2.304	2.302	$(2 \ 2 \ 5)$	0.24879	23.5
	44.442	44.398	2.037	2.038	$(\bar{4} \ 0 \ 3)$	0.20159	11.4
	56.254	56.881	1.631	1.617	$(\bar{5} \ \bar{3} \ 3)$	0.68072	5.7
	64.749	64.747	1.439	1.438	$(6 \ 5 \ 3)$	0.31517	4.3