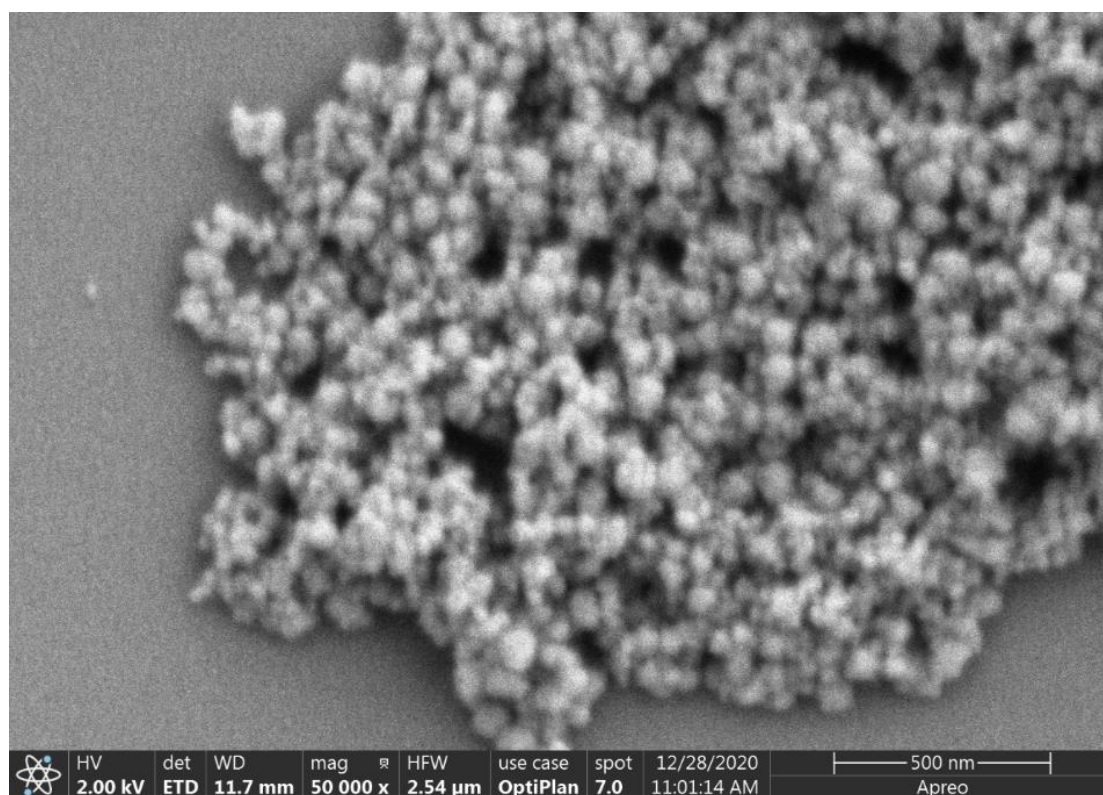


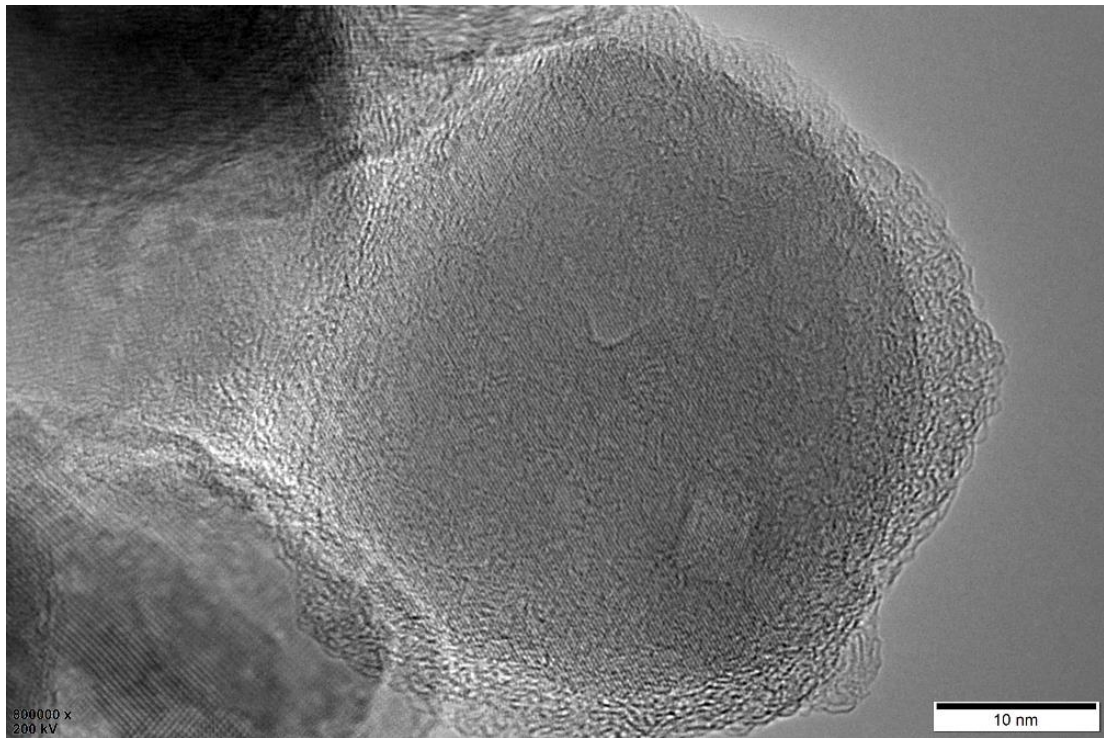
original data

Bottom-up Assembly of Recyclable Van Der Waals-integrated Photocatalysts towards Efficient Photoelectrocatalytic Degradation

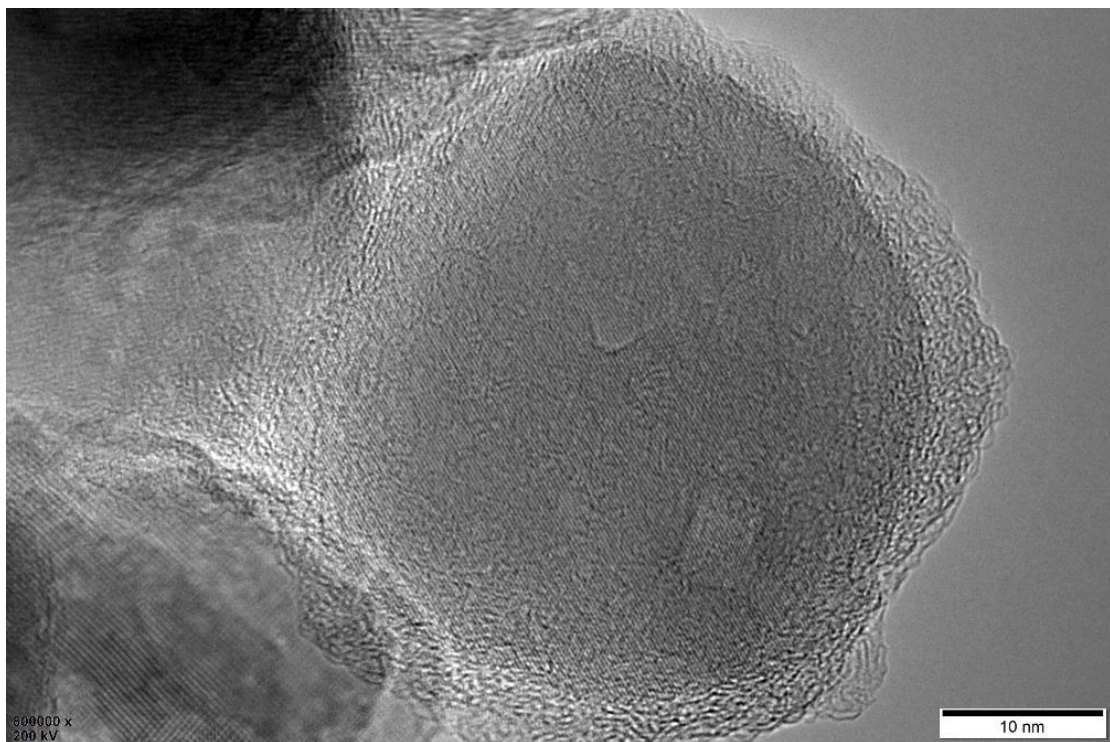
Hua-Jun Chen,[#] Zhao-Ming Lu,[#] Yan-Ling Yang,^{*,#} Xiao-Lei Shi,[#] Jin-Geng Chen, Ze-Nan Hu, Biying Zhang,
Yuefeng Chen, Yu Sun, Zhi-Gang Chen^{*}



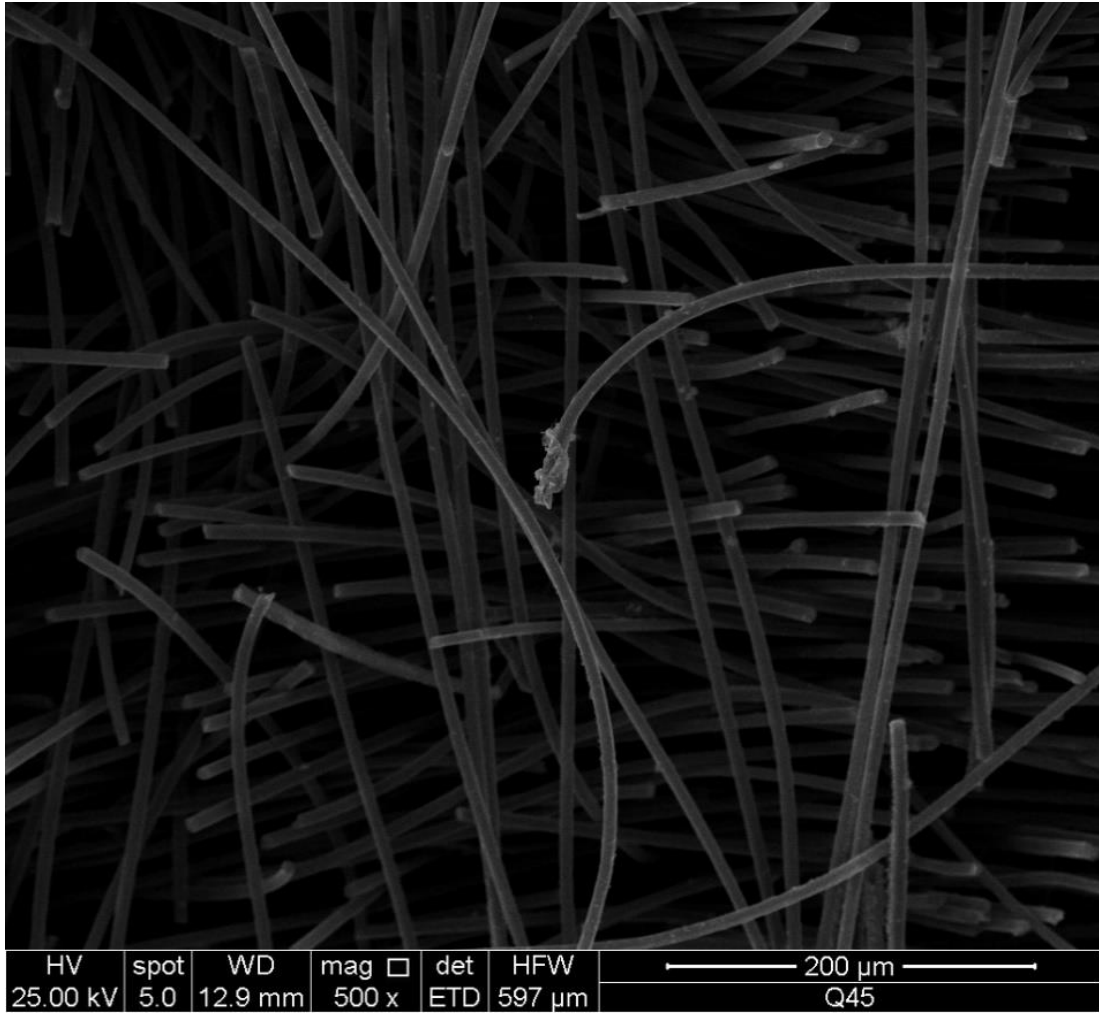
Elemental mapping of P25@AC core/shell nanospheres



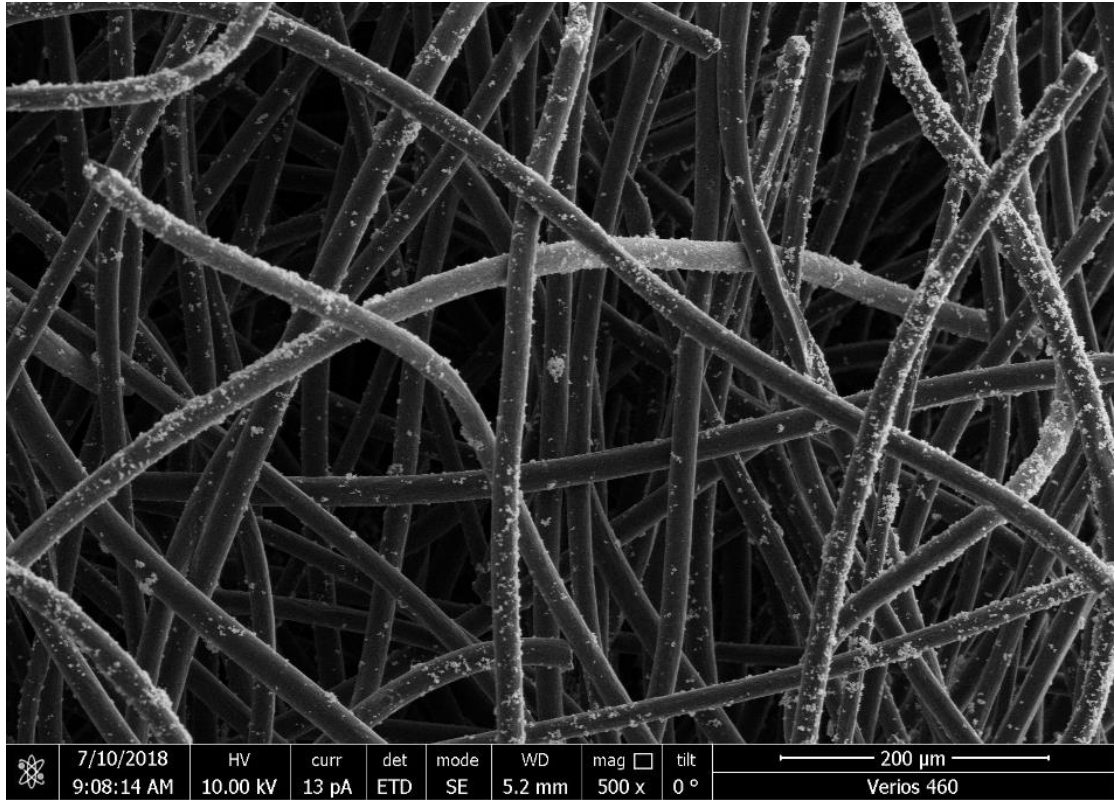
TEM image of P25@AC core/shell nanospheres



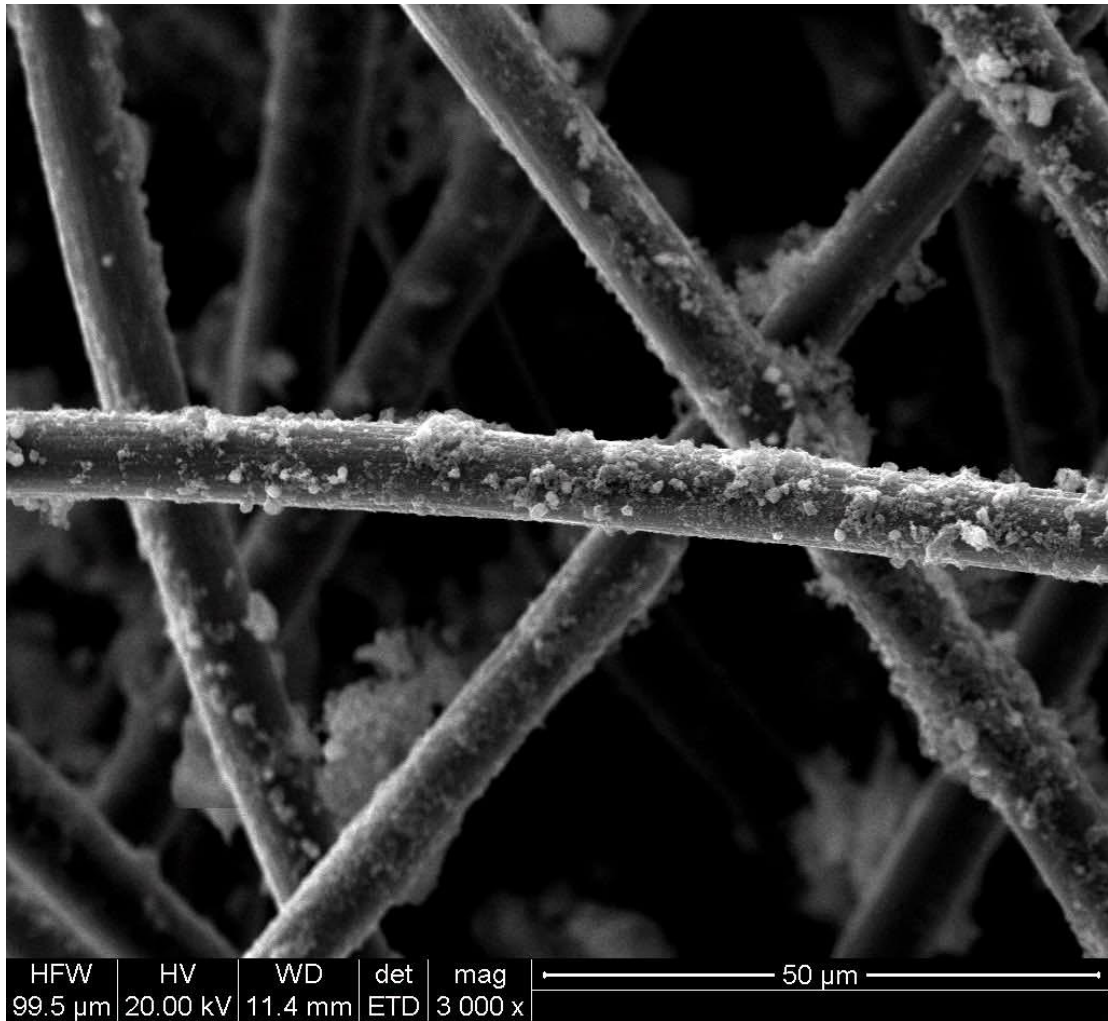
HRTEM analysis of P25@AC core/shell nanospheres



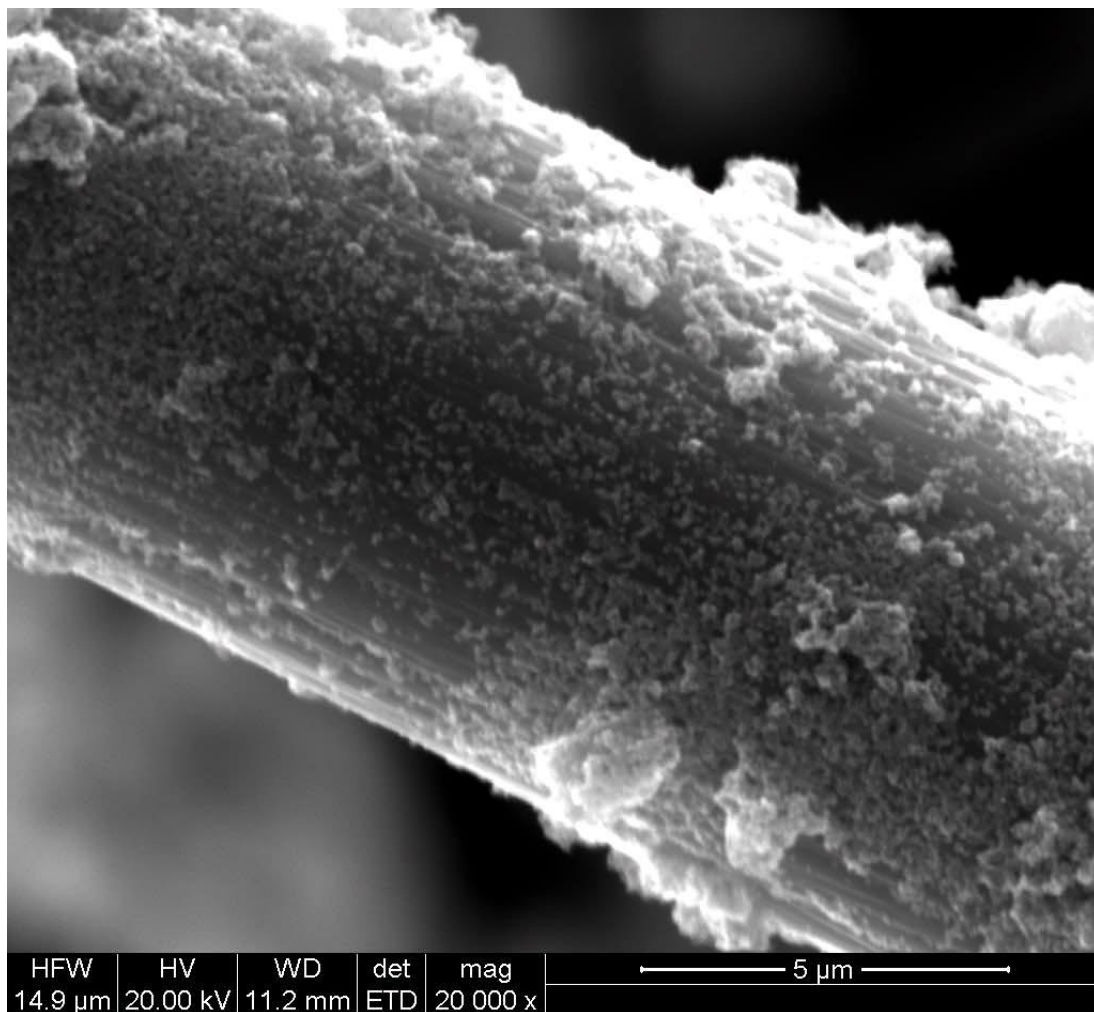
FESEM image of CTs



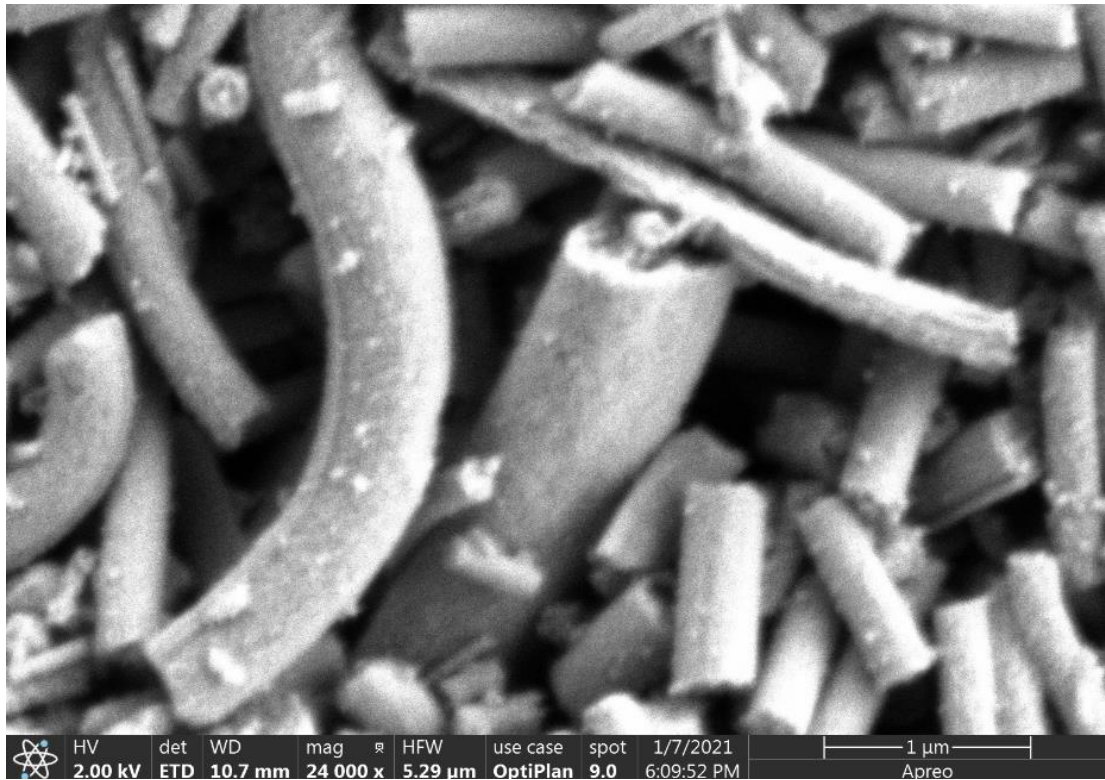
FESEM image of P25@AC/CTs



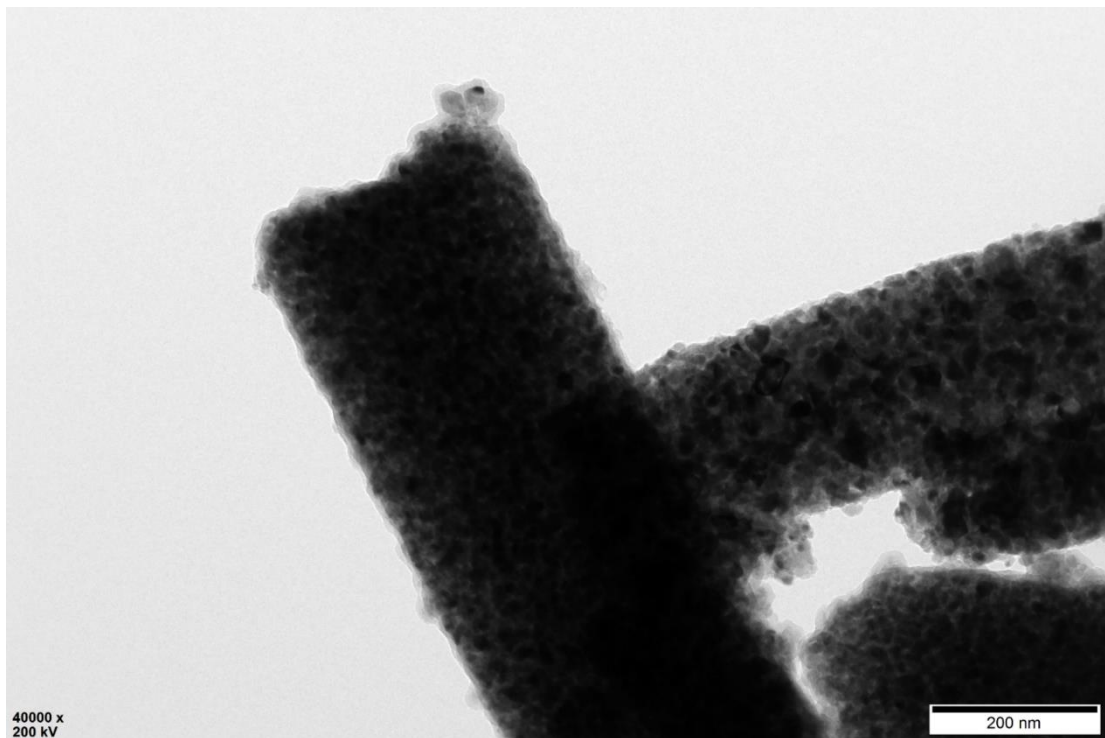
FESEM image of P25@AC/CTs



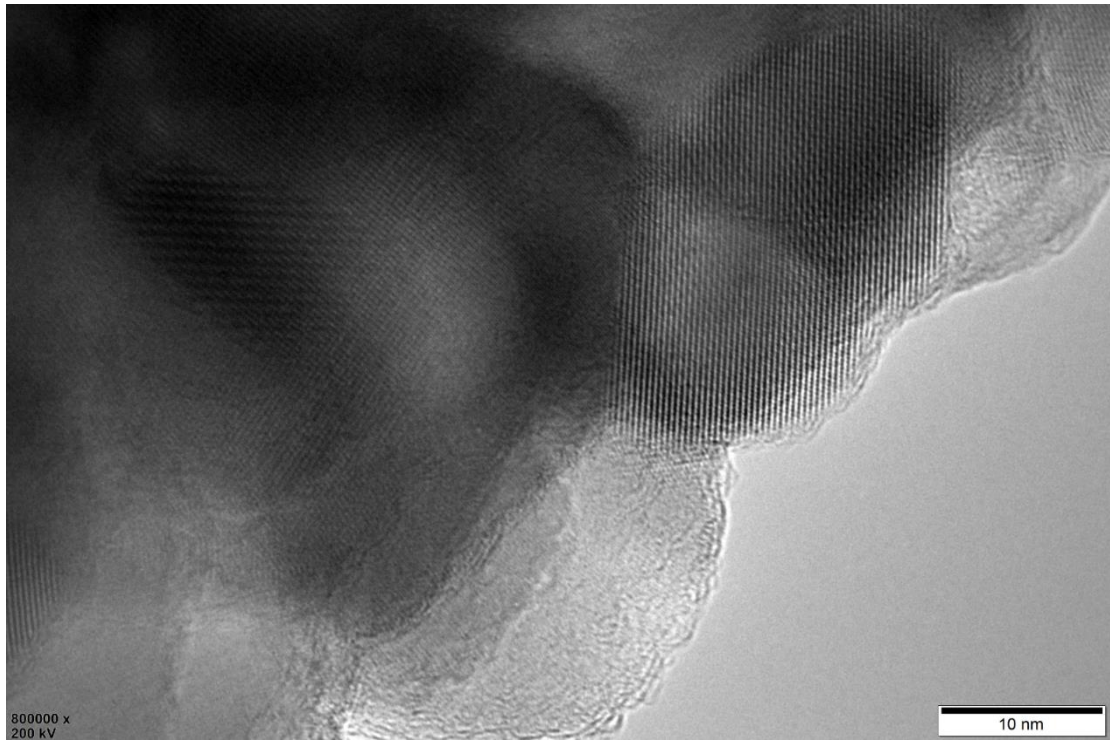
FESEM image of surface of single carbon fiber



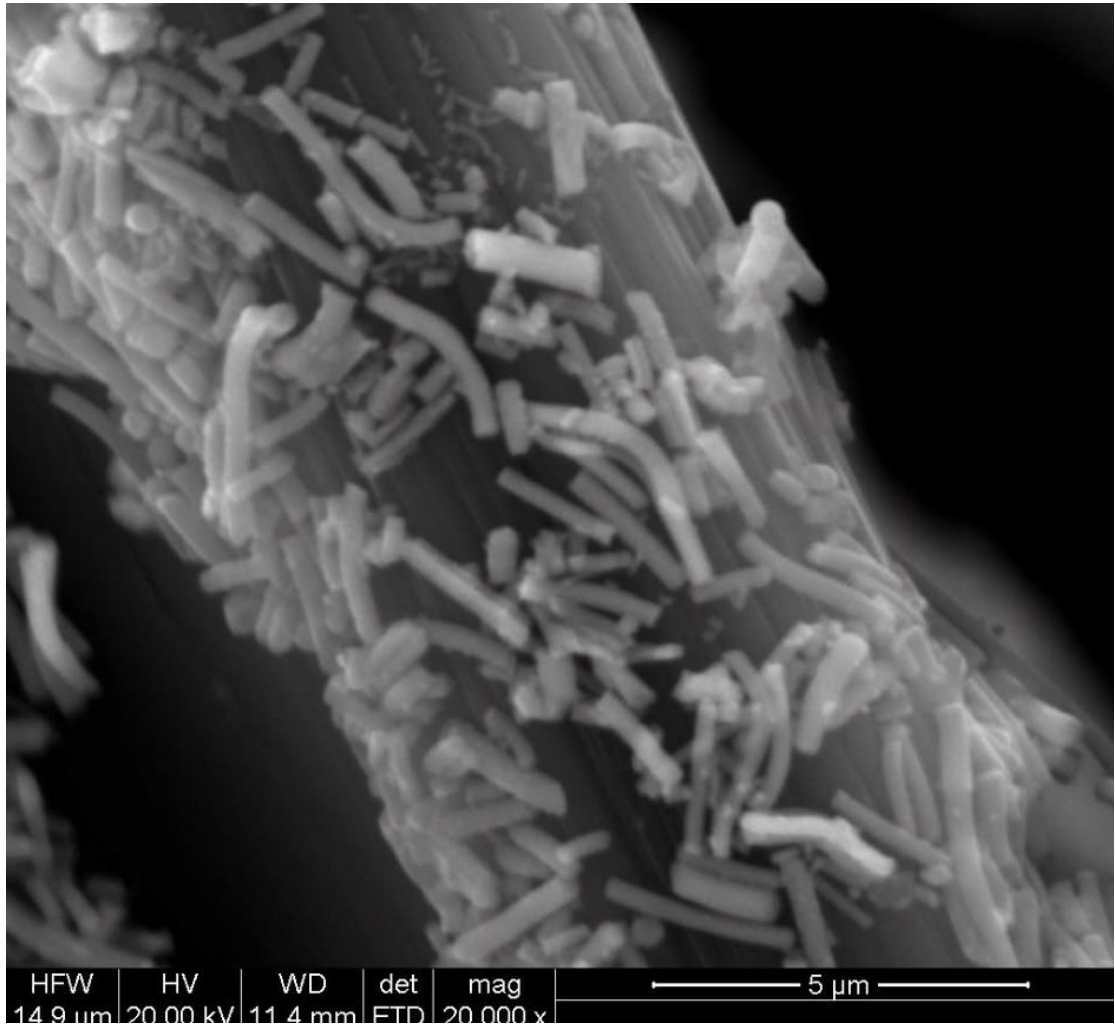
SEM analysis of TiO₂@AC core/shell fibers



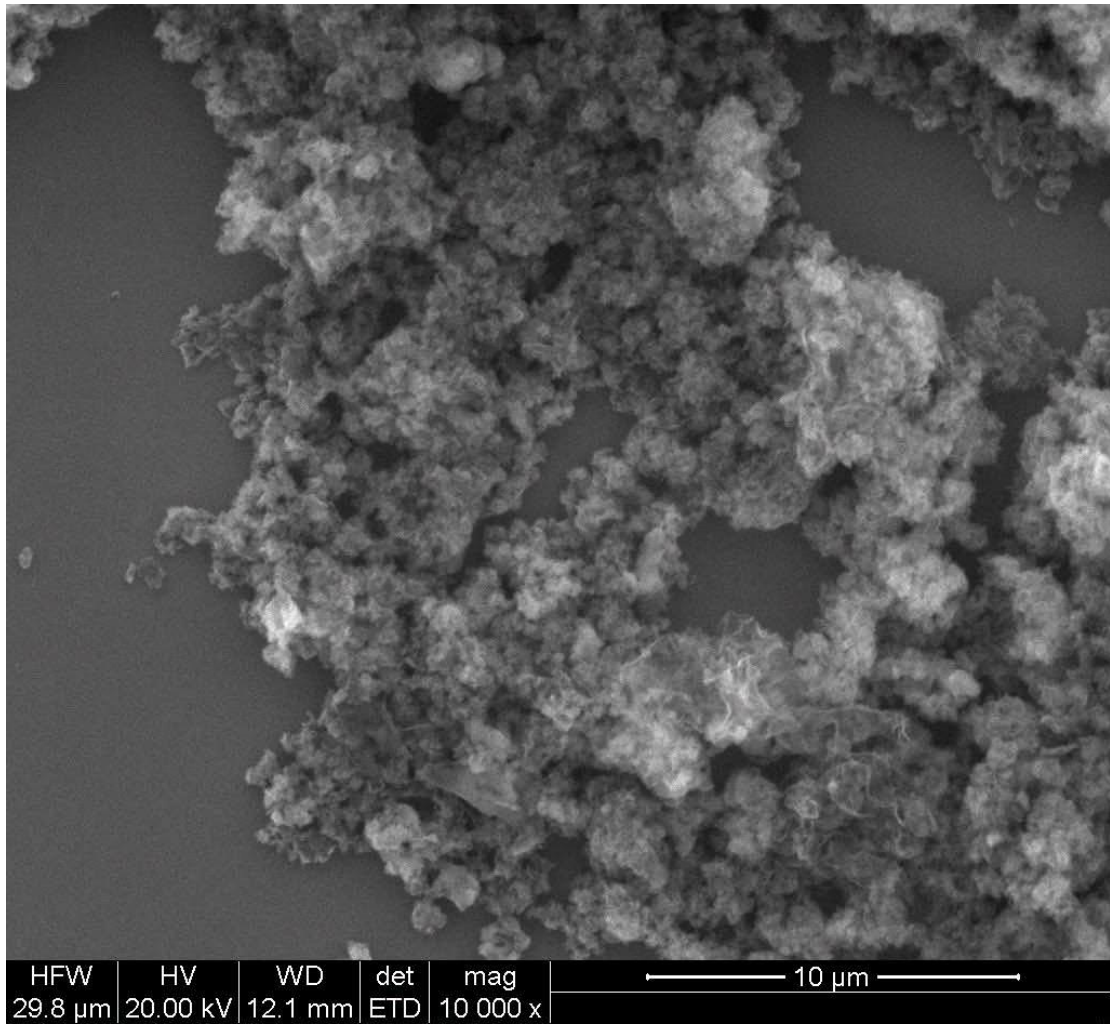
TEM analysis of TiO₂@AC core/shell fibers



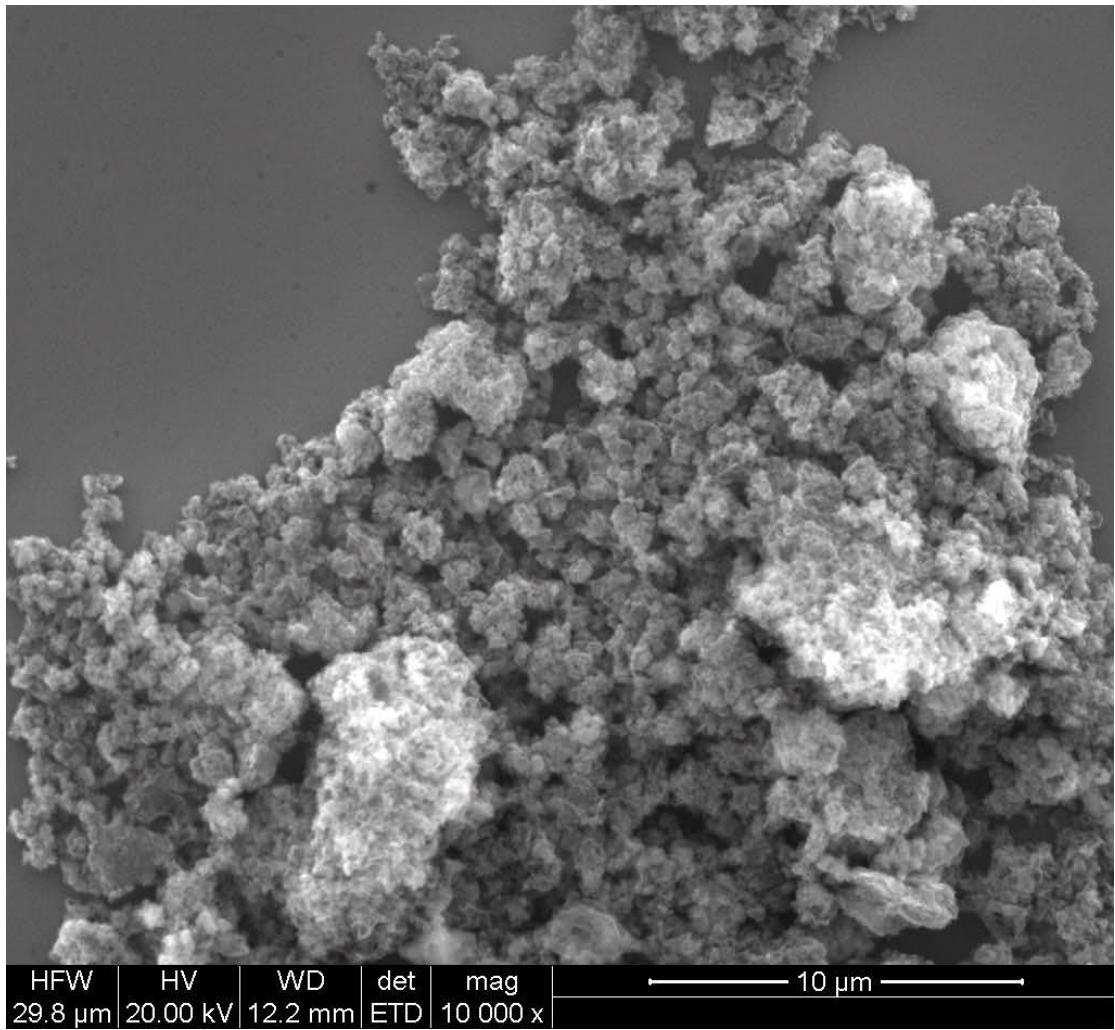
HRTEM analysis of TiO₂@AC core/shell fibers



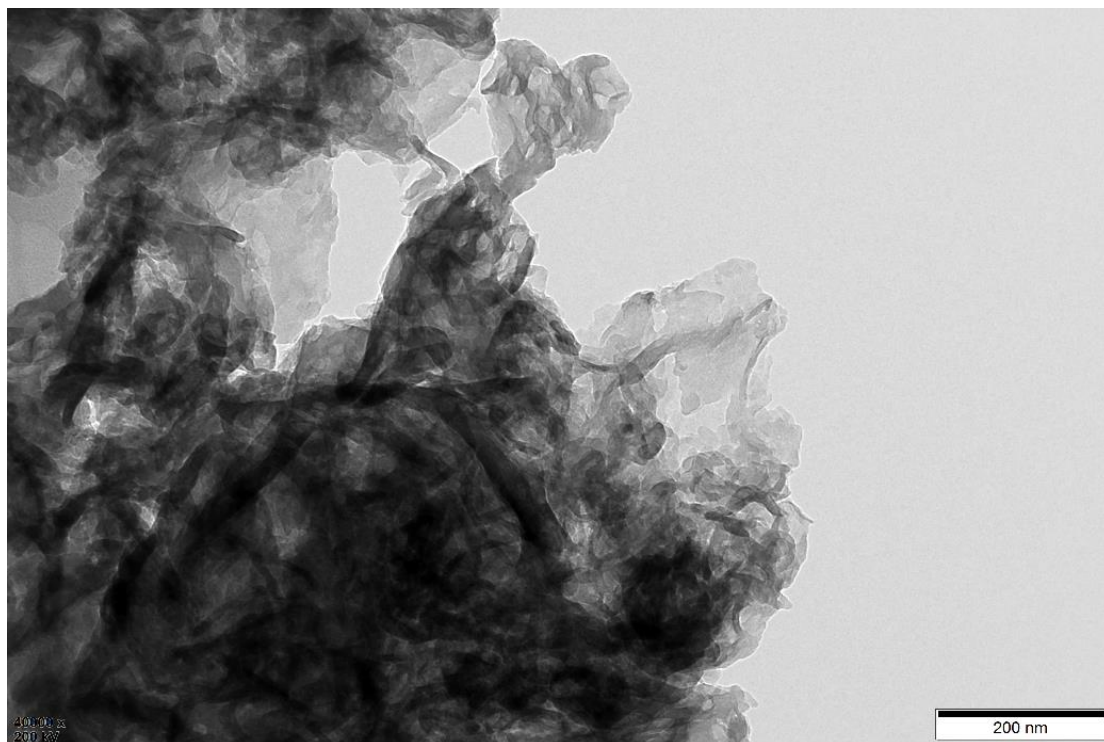
SEM analysis of TiO₂@AC/CTs



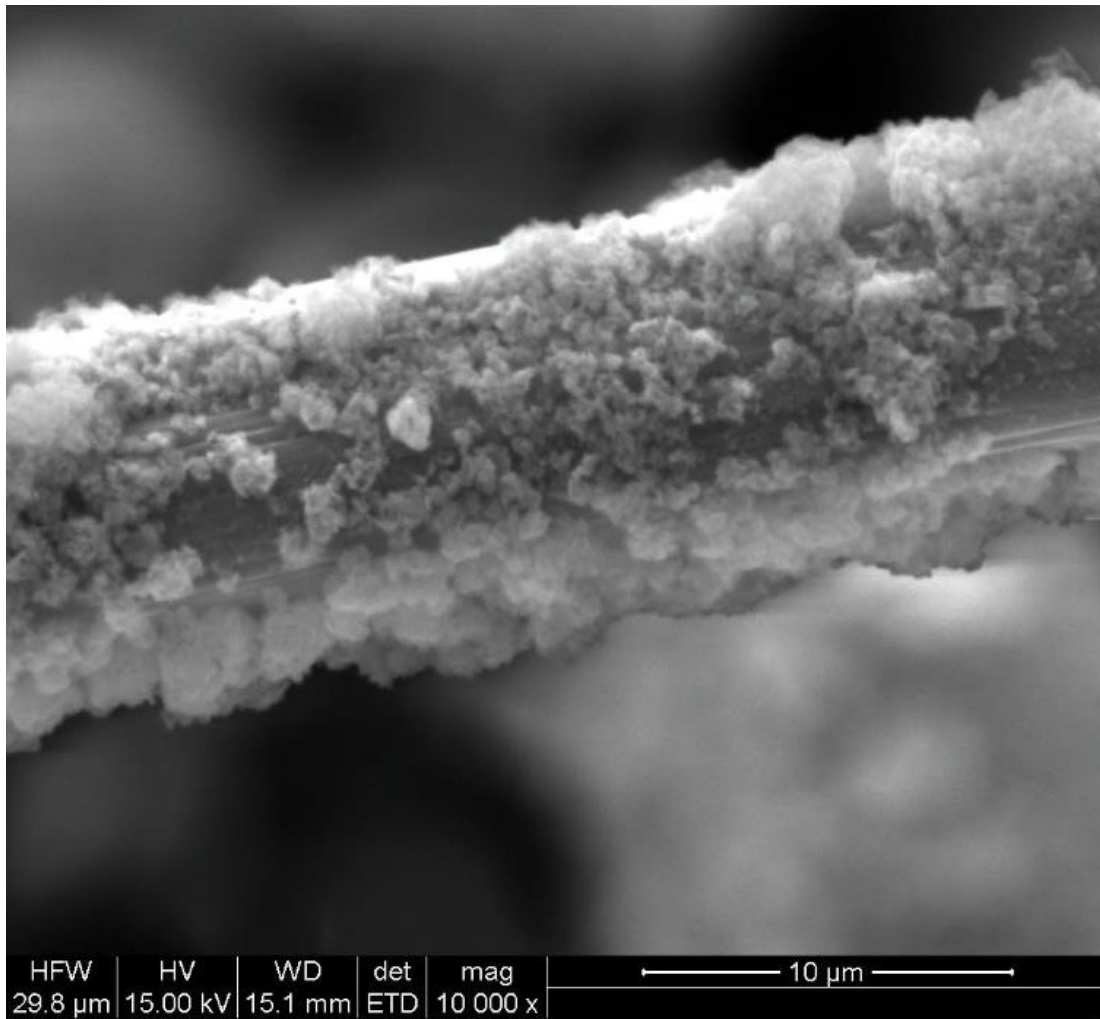
SEM image of g-C₃N₄ nanosheets



SEM image of g-C₃N₄@AC core/shell nanosheets



TEM analysis of g-C₃N₄@AC core/shell nanosheets



SEM analysis of g-C₃N₄@AC/CTs

XRD pattern (a) and FESEM images

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69.9	4	69.9	3
69.92	3	69.92	4
69.94	4	69.94	4
69.96	5	69.96	3
69.98	5	69.98	3
70	5	70	3

UV-vis DRS analysis of P25 nanospheres and P25@AC core/shell
nanospheres

800	0.01902	800	1.21484
799	0.01896	799	1.21432
798	0.01892	798	1.21382

797	0.01889	797	1.21332
796	0.01887	796	1.21284
795	0.01886	795	1.21236
794	0.01886	794	1.21189
793	0.01887	793	1.21142
792	0.01889	792	1.21097
791	0.01893	791	1.21052
790	0.01897	790	1.21009
789	0.01893	789	1.20993
788	0.01897	788	1.20949
787	0.01931	787	1.2088
786	0.0193	786	1.20844
785	0.01936	785	1.20799
784	0.01944	784	1.20773
783	0.01936	783	1.20741
782	0.01967	782	1.20687
781	0.01992	781	1.20669
780	0.01991	780	1.20623
779	0.02012	779	1.20508
778	0.02	778	1.20446
777	0.02018	777	1.20366
776	0.02012	776	1.20283

775	0.01969	775	1.20234
774	0.02002	774	1.20191
773	0.02037	773	1.20122
772	0.02018	772	1.2005
771	0.02032	771	1.19993
770	0.02029	770	1.19941
769	0.02021	769	1.19878
768	0.02009	768	1.19825
767	0.02001	767	1.19788
766	0.01945	766	1.1975
765	0.01926	765	1.19716
764	0.01939	764	1.19671
763	0.01936	763	1.19627
762	0.01963	762	1.1959
761	0.02002	761	1.19543
760	0.02014	760	1.19471
759	0.0202	759	1.19392
758	0.02037	758	1.19332
757	0.02067	757	1.19282
756	0.0205	756	1.1924
755	0.02073	755	1.192
754	0.02104	754	1.19147

753	0.02106	753	1.19073
752	0.02102	752	1.19014
751	0.02127	751	1.18957
750	0.02125	750	1.18911
749	0.02109	749	1.18871
748	0.02085	748	1.18828
747	0.02069	747	1.18762
746	0.02061	746	1.18709
745	0.02026	745	1.18645
744	0.02056	744	1.18589
743	0.02041	743	1.18525
742	0.02049	742	1.18484
741	0.02052	741	1.1842
740	0.02048	740	1.18366
739	0.02054	739	1.1831
738	0.02063	738	1.18277
737	0.02071	737	1.18242
736	0.02055	736	1.18198
735	0.02079	735	1.1815
734	0.02087	734	1.18116
733	0.02082	733	1.1805
732	0.02092	732	1.17996

731	0.02098	731	1.17925
730	0.02101	730	1.17887
729	0.02082	729	1.17841
728	0.02089	728	1.17775
727	0.02106	727	1.17727
726	0.0211	726	1.17681
725	0.02096	725	1.17632
724	0.02122	724	1.17576
723	0.02106	723	1.17524
722	0.0211	722	1.1748
721	0.02115	721	1.1743
720	0.02133	720	1.17393
719	0.02141	719	1.17362
718	0.0215	718	1.17325
717	0.02156	717	1.17278
716	0.02148	716	1.17231
715	0.02149	715	1.17179
714	0.02151	714	1.17143
713	0.02136	713	1.17072
712	0.02153	712	1.17018
7110.02157		7111.16969	
710	0.02175	710	1.16948

709	0.02184	709	1.16902
708	0.0221	708	1.16849
707	0.02219	707	1.16813
706	0.02222	706	1.16763
705	0.02238	705	1.16716
704	0.02235	704	1.16665
703	0.02253	703	1.16615
702	0.02269	702	1.16564
701	0.02279	701	1.1652
700	0.02297	700	1.16468
699	0.02305	699	1.16416
698	0.02299	698	1.16357
697	0.02288	697	1.16307
696	0.02294	696	1.16268
695	0.02305	695	1.16225
694	0.02313	694	1.16179
693	0.02301	693	1.16131
692	0.02312	692	1.16085
691	0.02303	691	1.16044
690	0.02307	690	1.15995
689	0.02299	689	1.15947
688	0.02294	688	1.15897

687	0.02296	687	1.1585
686	0.02293	686	1.15798
685	0.02292	685	1.15751
684	0.02295	684	1.15706
683	0.02311	683	1.15657
682	0.02319	682	1.15614
681	0.02325	681	1.15569
680	0.02335	680	1.15525
679	0.02352	679	1.15487
678	0.02355	678	1.15447
677	0.02364	677	1.15412
676	0.0237	676	1.15382
675	0.02373	675	1.15343
674	0.0237	674	1.15312
673	0.02375	673	1.15286
672	0.02384	672	1.15252
671	0.02384	671	1.15225
670	0.02388	670	1.15194
669	0.02386	669	1.15162
668	0.02386	668	1.15137
667	0.02391	667	1.15114
666	0.02385	666	1.1508

665	0.02398	665	1.15051
664	0.02396	664	1.15023
663	0.02405	663	1.14995
662	0.02413	662	1.14965
661	0.02424	661	1.14941
660	0.02431	660	1.14915
659	0.02443	659	1.14884
658	0.02439	658	1.14849
657	0.02438	657	1.14817
656	0.02442	656	1.1479
655	0.02453	655	1.14758
654	0.02463	654	1.14735
653	0.02485	653	1.14712
652	0.025	652	1.14679
651	0.0251	651	1.14659
650	0.02511	650	1.14633
649	0.02517	649	1.1461
648	0.02521	648	1.14594
647	0.02522	647	1.14569
646	0.02522	646	1.14541
645	0.02529	645	1.14518
644	0.02529	644	1.14489

643	0.02544	643	1.14468
642	0.02554	642	1.14434
641	0.02552	641	1.14409
640	0.02558	640	1.14374
639	0.02559	639	1.14337
638	0.02564	638	1.1431
637	0.02576	637	1.14276
636	0.02596	636	1.14241
635	0.02617	635	1.14196
634	0.02639	634	1.14162
633	0.02658	633	1.14129
632	0.0267	632	1.14085
631	0.0269	631	1.14051
630	0.02701	630	1.1401
629	0.02718	629	1.13971
628	0.02725	628	1.13939
627	0.02727	627	1.13907
626	0.02726	626	1.13878
625	0.02737	625	1.13839
624	0.02735	624	1.13802
623	0.02738	623	1.13765
622	0.02738	622	1.13731

621	0.02727	621	1.13706
620	0.02728	620	1.13676
619	0.02721	619	1.13644
618	0.02735	618	1.1362
617	0.02751	617	1.13585
616	0.02766	616	1.13557
615	0.02777	615	1.1353
614	0.02791	614	1.13508
613	0.02803	613	1.13484
612	0.02816	612	1.13453
6110	0.0284	6111	1.13435
610	0.0285	610	1.13423
609	0.0285	609	1.13414
608	0.02854	608	1.13415
607	0.02863	607	1.13415
606	0.02866	606	1.13422
605	0.02875	605	1.13429
604	0.0288	604	1.1344
603	0.029	603	1.13452
602	0.02909	602	1.13473
601	0.0292	601	1.13493
600	0.02938	600	1.13515

599	0.02944	599	1.13527
598	0.02965	598	1.13547
597	0.02992	597	1.13563
596	0.03001	596	1.13579
595	0.03017	595	1.13591
594	0.03033	594	1.13591
593	0.03048	593	1.13592
592	0.03055	592	1.13578
591	0.0307	591	1.13575
590	0.0308	590	1.13565
589	0.0309	589	1.13561
588	0.03098	588	1.13546
587	0.03108	587	1.13524
586	0.03125	586	1.13508
585	0.0315	585	1.13502
584	0.03173	584	1.13492
583	0.0319	583	1.13473
582	0.03199	582	1.13462
581	0.03216	581	1.13464
580	0.03226	580	1.13464
579	0.03238	579	1.1347
578	0.03255	578	1.13471

577	0.03276	577	1.13476
576	0.03274	576	1.1348
575	0.03283	575	1.13477
574	0.03294	574	1.13481
573	0.033	573	1.13473
572	0.0331	572	1.1347
571	0.03309	571	1.13468
570	0.03317	570	1.13468
569	0.03329	569	1.13469
568	0.0332	568	1.13457
567	0.03341	567	1.13456
566	0.03359	566	1.13467
565	0.03372	565	1.13471
564	0.03379	564	1.13468
563	0.03385	563	1.1346
562	0.03401	562	1.13467
561	0.03407	561	1.13476
560	0.03437	560	1.13477
559	0.03458	559	1.13472
558	0.03474	558	1.13463
557	0.03492	557	1.1348
556	0.03505	556	1.13492

555	0.0352	555	1.13491
554	0.03535	554	1.13485
553	0.0355	553	1.13479
552	0.03573	552	1.13484
551	0.03573	551	1.13473
550	0.03597	550	1.1347
549	0.03621	549	1.13463
548	0.0363	548	1.13467
547	0.03652	547	1.13474
546	0.03664	546	1.13484
545	0.03681	545	1.13489
544	0.03691	544	1.13505
543	0.03708	543	1.13517
542	0.03717	542	1.13525
541	0.03727	541	1.13524
540	0.03759	540	1.13535
539	0.03769	539	1.13545
538	0.03788	538	1.1357
537	0.03808	537	1.136
536	0.03815	536	1.13621
535	0.03825	535	1.1363
534	0.03848	534	1.13643

533	0.03868	533	1.13675
532	0.03876	532	1.13695
531	0.03886	531	1.13715
530	0.03911	530	1.13733
529	0.03937	529	1.13764
528	0.03947	528	1.1379
527	0.03966	527	1.13818
526	0.03977	526	1.13852
525	0.04	525	1.13882
524	0.04016	524	1.13914
523	0.04043	523	1.13944
522	0.04046	522	1.13966
521	0.04069	521	1.13985
520	0.04105	520	1.14025
519	0.04132	519	1.1405
518	0.04155	518	1.14079
517	0.04173	517	1.14118
516	0.04183	516	1.14162
515	0.04199	515	1.14199
514	0.04224	514	1.14236
513	0.04237	513	1.1428
512	0.04249	512	1.1433

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489	0.04685	489	1.15192
488	0.04697	488	1.15243
487	0.0473	487	1.15286
486	0.04765	486	1.1535
485	0.04785	485	1.15403
484	0.04805	484	1.15459
483	0.04832	483	1.15532
482	0.04845	482	1.156
481	0.04853	481	1.15669
480	0.04867	480	1.15727
479	0.04915	479	1.15786
478	0.04932	478	1.15836
477	0.04971	477	1.15896
476	0.05005	476	1.15964
475	0.05014	475	1.16018
474	0.0504	474	1.16061
473	0.05078	473	1.16111
472	0.05113	472	1.16175
471	0.05139	471	1.16228
470	0.05152	470	1.16294
469	0.05167	469	1.16361
468	0.05198	468	1.16438

467	0.05237	467	1.16496
466	0.05291	466	1.16569
465	0.05328	465	1.16637
464	0.05362	464	1.16711
463	0.05421	463	1.16797
462	0.05447	462	1.16864
461	0.0548	461	1.16932
460	0.05526	460	1.16984
459	0.05578	459	1.1705
458	0.05606	458	1.17109
457	0.05663	457	1.17189
456	0.0569	456	1.17258
455	0.05725	455	1.17325
454	0.05768	454	1.1738
453	0.05807	453	1.17462
452	0.05848	452	1.17541
451	0.05859	451	1.17619
450	0.05887	450	1.17705
449	0.05912	449	1.17784
448	0.05958	448	1.17867
447	0.05986	447	1.17947
446	0.06044	446	1.18054

445	0.06078	445	1.18139
444	0.06114	444	1.18214
443	0.06174	443	1.18305
442	0.06223	442	1.18383
441	0.06259	441	1.18469
440	0.06319	440	1.1855
439	0.06384	439	1.18633
438	0.06438	438	1.18712
437	0.06498	437	1.18809
436	0.06554	436	1.18879
435	0.06616	435	1.18966
434	0.06677	434	1.1905
433	0.06744	433	1.19141
432	0.06842	432	1.19217
431	0.06922	431	1.19314
430	0.07019	430	1.1939
429	0.07102	429	1.19479
428	0.07197	428	1.19582
427	0.07278	427	1.19664
426	0.07399	426	1.19756
425	0.07503	425	1.19824
424	0.07624	424	1.19913

423	0.07754	423	1.20009
422	0.07876	422	1.20111
421	0.07998	421	1.20225
420	0.08148	420	1.20325
419	0.08272	419	1.20409
418	0.08427	418	1.20483
417	0.08578	417	1.20544
416	0.08738	416	1.20629
415	0.0891	415	1.20725
414	0.09143	414	1.20806
413	0.09391	413	1.20879
412	0.09653	412	1.20949
4110	0.09916	4111	1.21038
410	0.102	410	1.21124
409	0.10505	409	1.21205
408	0.10873	408	1.21292
407	0.1124	407	1.21341
406	0.11672	406	1.21406
405	0.12107	405	1.21468
404	0.12577	404	1.21543
403	0.1306	403	1.21626
402	0.13603	402	1.21715

401	0.14186	401	1.218
400	0.14806	400	1.21862
399	0.15425	399	1.21928
398	0.1617	398	1.21989
397	0.16894	397	1.22073
396	0.1772	396	1.22168
395	0.18618	395	1.22223
394	0.19592	394	1.22265
393	0.20574	393	1.22328
392	0.21638	392	1.22414
391	0.2278	391	1.22497
390	0.24002	390	1.22573
389	0.25304	389	1.22652
388	0.26723	388	1.22693
387	0.28265	387	1.22711
386	0.29908	386	1.22772
385	0.31665	385	1.22834
384	0.33523	384	1.22907
383	0.35464	383	1.22998
382	0.37554	382	1.23076
381	0.39765	381	1.23149
380	0.42143	380	1.23221

379	0.4459	379	1.23355
378	0.47157	378	1.23446
377	0.49877	377	1.23512
376	0.52722	376	1.23595
375	0.55662	375	1.23681
374	0.58637	374	1.23773
373	0.61659	373	1.23888
372	0.64793	372	1.2404
371	0.67999	371	1.2419
370	0.7125	370	1.2435
369	0.74606	369	1.24468
368	0.77903	368	1.24563
367	0.81105	367	1.24722
366	0.84241	366	1.2492
365	0.87476	365	1.25124
364	0.90484	364	1.25311
363	0.93375	363	1.25538
362	0.96232	362	1.2576
361	0.98914	361	1.25918
360	1.01512	360	1.26188
359	1.03868	359	1.26389
358	1.06064	358	1.26589

357	1.0805	357	1.26781
356	1.0974	356	1.27098
355	1.11334	355	1.27384
354	1.12815	354	1.27711
353	1.14174	353	1.27971
352	1.15315	352	1.28209
351	1.16329	351	1.28471
350	1.17126	350	1.28705
349	1.17939	349	1.28891
348	1.18417	348	1.29164
347	1.18864	347	1.29417
346	1.19152	346	1.29636
345	1.19438	345	1.29839
344	1.19592	344	1.29951
343	1.19609	343	1.30112
342	1.19637	342	1.30231
341	1.19648	341	1.30309
340	1.19524	340	1.30437
339	1.19302	339	1.30524
338	1.19048	338	1.30635
337	1.18831	337	1.30687
336	1.18559	336	1.30781

335	1.18467	335	1.30773
334	1.18389	334	1.3076
333	1.18183	333	1.30637
332	1.17935	332	1.30576
331	1.17865	331	1.30485
330	1.17765	330	1.30393
329	1.17833	329	1.30311
328	1.17657	328	1.30279
327	1.17573	327	1.30132
326	1.17262	326	1.2999
325	1.17176	325	1.29856
324	1.17046	324	1.29712
323	1.16943	323	1.29657
322	1.16859	322	1.29579
321	1.16785	321	1.29537
320	1.16594	320	1.29482
319	1.16477	319	1.29472
318	1.16474	318	1.29373
317	1.16479	317	1.29318
316	1.16277	316	1.29233
315	1.16208	315	1.29138
314	1.16141	314	1.29096

313	1.1604	313	1.29002
312	1.15998	312	1.2896
311	1.1598	311	1.28871
310	1.15862	310	1.28827
309	1.15664	309	1.28767
308	1.1537	308	1.28697
307	1.15278	307	1.28588
306	1.15066	306	1.28527
305	1.14968	305	1.28396
304	1.14979	304	1.28298
303	1.14978	303	1.28246
302	1.1487	302	1.28126
301	1.14755	301	1.28021
300	1.14761	300	1.27869
299	1.14705	299	1.27752
298	1.14753	298	1.27624
297	1.14722	297	1.27531
296	1.1464	296	1.2739
295	1.14474	295	1.2731
294	1.14409	294	1.27247
293	1.14272	293	1.27153
292	1.14083	292	1.27094

291	1.13994	291	1.2701
290	1.13809	290	1.26886
289	1.13597	289	1.26831
288	1.13498	288	1.26765
287	1.13575	287	1.26708
286	1.13453	286	1.26659
285	1.13366	285	1.26601
284	1.134	284	1.26597
283	1.13361	283	1.26575
282	1.13401	282	1.26509
281	1.13456	281	1.26474
280	1.13625	280	1.26437
279	1.13612	279	1.26454
278	1.13733	278	1.26468
277	1.13696	277	1.26519
276	1.13658	276	1.26532
275	1.13505	275	1.26559
274	1.13542	274	1.26588
273	1.13495	273	1.26608
272	1.13488	272	1.26621
271	1.13575	271	1.26646
270	1.13529	270	1.26633

269	1.1346	269	1.26638
268	1.13389	268	1.26638
267	1.13373	267	1.26675
266	1.13226	266	1.26695
265	1.13212	265	1.26706
264	1.13255	264	1.26702
263	1.13314	263	1.26698
262	1.13347	262	1.26733
261	1.1343	261	1.26784
260	1.13504	260	1.26828
259	1.13487	259	1.26905
258	1.1362	258	1.26997
257	1.13626	257	1.27124
256	1.13817	256	1.27212
255	1.13871	255	1.27323
254	1.14061	254	1.2751
253	1.14243	253	1.27699
252	1.14426	252	1.27867
251	1.14617	251	1.28083
250	1.14701	250	1.28264
249	1.14731	249	1.2846
248	1.14869	248	1.28709

247	1.15051	247	1.28951
246	1.15163	246	1.29183
245	1.15363	245	1.29404
244	1.15549	244	1.29639
243	1.15796	243	1.29863
242	1.15973	242	1.30099
241	1.1621	241	1.30347
240	1.16361	240	1.30543
239	1.16465	239	1.30755
238	1.16589	238	1.3092
237	1.16698	237	1.31096
236	1.16832	236	1.31203
235	1.16997	235	1.31365
234	1.17204	234	1.31567
233	1.17352	233	1.31718
232	1.17323	232	1.3186
231	1.17424	231	1.32033
230	1.17448	230	1.32251
229	1.17627	229	1.32428
228	1.17881	228	1.32611
227	1.18031	227	1.32843
226	1.1802	226	1.33018

225	1.18276	225	1.33236
224	1.18506	224	1.3345
223	1.18348	223	1.33751
222	1.18518	222	1.3396
221	1.18516	221	1.34155
220	1.18262	220	1.34368
219	1.17741	219	1.34602
218	1.17064	218	1.34772
217	1.16987	217	1.34853
216	1.17092	216	1.34912
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206	1.13504	206	1.34284
205	1.12821	205	1.34053
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203	1.11292	203	1.33498
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