# CITATION REPORT List of articles citing

Chemical and structural properties of carbonaceous products obtained by hydrothermal carbonization of sacchar

DOI: 10.1002/chem.200802097 Chemistry - A European Journal, 2009, 15, 4195-203.

Source: https://exaly.com/paper-pdf/46057154/citation-report.pdf

Version: 2024-04-10

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper IF	Citations
1081	The production of carbon materials by hydrothermal carbonization of cellulose. <b>2009</b> , 47, 2281-2289	1270
1080	Synthesis and applications of graphite carbon sphere with uniformly distributed magnetic Fe3O4 nanoparticles (MGCSs) and MGCS@Ag, MGCS@TiO2. <b>2010</b> , 20, 4802	30
1079	Facile preparation of magnetic carbonaceous nanoparticles for Pb2+ ions removal. <b>2010</b> , 183, 853-8	54
1078	One-step synthesis of novel biacidic carbon via hydrothermal carbonization. <b>2010</b> , 183, 1721-1725	45
1077	One-step synthesis of a novel carbon-based strong acid catalyst through hydrothermal carbonization. <b>2010</b> , 141, 929-932	20
1076	One-step synthesis of novel sulfuric acid groups' functionalized carbon via hydrothermal carbonization. <b>2010</b> , 64, 953-955	17
1075	One-step synthesis of acid carbon and its catalytic activities for the oxathioacetalization. <b>2010</b> , 12, 1270-1273	<b>3</b> 7
1074	Synthesis of carbon-based solid acid microspheres and their application to the production of biodiesel. <b>2010</b> , 3, 1352-4	68
1073	Engineering carbon materials from the hydrothermal carbonization process of biomass. <b>2010</b> , 22, 813-28	1282
1072	Amphiphilic Hollow Carbonaceous Microspheres with Permeable Shells. <b>2010</b> , 122, 4319-4323	8
1071	Amphiphilic hollow carbonaceous microspheres with permeable shells. <b>2010</b> , 49, 4223-7	84
1070	Hydrothermal carbonization of biomass: A summary and discussion of chemical mechanisms for process engineering. <b>2010</b> , 4, 160-177	1055
1069	Alcohol-assisted hydrothermal carbonization to fabricate spheroidal carbons with a tunable shape and aspect ratio. <b>2010</b> , 48, 1224-1233	87
1068	One-step synthesis of carbon functionalized with sulfonic acid groups using hydrothermal carbonization. <b>2010</b> , 48, 1844-1848	107
1067	Hydrothermal preparation of carbon microspheres from mono-saccharides and phenolic compounds. <b>2010</b> , 48, 1990-1998	244
1066	Sustainable nitrogen-doped carbonaceous materials from biomass derivatives. <b>2010</b> , 48, 3778-3787	332
1065	Highly efficient procedure for the synthesis of fructone fragrance using a novel carbon based acid. <b>2010</b> , 15, 5369-77	5

## (2011-2010)

1064	Synthesis and capacitive properties of carbonaceous sphere@MnO2 rattle-type hollow structures. <b>2010</b> , 25, 1476-1484	18
1063	Fe(x)O(y)@C spheres as an excellent catalyst for Fischer-Tropsch synthesis. <b>2010</b> , 132, 935-7	229
1062	Chemical and structural properties of carbonaceous products obtained by pyrolysis and hydrothermal carbonisation of corn stover. <b>2010</b> , 48, 618	253
1061	Novel carbonaceous nanocomposite pellicle based on bacterial cellulose. <b>2010</b> , 12, 1454	18
1060	Enhanced photocatalytic activity of silica-embedded TiO2 hollow microspheres prepared by one-pot approach. <b>2010</b> , 493, L1-L7	41
1059	Carbonization under pressure. <b>2010</b> , 25, 409-420	45
1058	Knitting an oxygenated network-coat on carbon nanotubes from biomass and their applications in catalysis. <b>2011</b> , 21, 10929	21
1057	Composite polymer hydrogels as draw agents in forward osmosis and solar dewatering. <b>2011</b> , 7, 10048	120
1056	Interface-facilitated hydrothermal synthesis of sub-micrometre graphitic carbon plates. <b>2011</b> , 21, 15197	12
1055	Hierarchical porous carbonaceous materials via ionothermal carbonization of carbohydrates. <b>2011</b> , 21, 7434	106
1054	Structural Insights on Nitrogen-Containing Hydrothermal Carbon Using Solid-State Magic Angle Spinning 13C and 15N Nuclear Magnetic Resonance. <b>2011</b> , 115, 8976-8982	85
1053	Characterization of products from hydrothermal liquefaction and carbonation of biomass model compounds and real biomass. <b>2011</b> , 39, 893-900	53
1052	Synthesis of monodispersed SnO2@C composite hollow spheres for lithium ion battery anode applications. <b>2011</b> , 21, 17448	63
1051	Hydrothermal carbonization of biomass residuals: a comparative review of the chemistry, processes and applications of wet and dry pyrolysis. <b>2011</b> , 2, 71-106	1013
1050	Hydrothermal carbonization of municipal waste streams. <b>2011</b> , 45, 5696-703	473
1049	Sustainable porous carbons with a superior performance for CO2 capture. <b>2011</b> , 4, 1765	749
1048	Carbonaceous materials passivation on amine functionalized magnetic nanoparticles and its application for metal affinity isolation of recombinant protein. <b>2011</b> , 3, 3342-9	9
1047	Hydrothermal carbon from biomass: structural differences between hydrothermal and pyrolyzed carbons via 13C solid state NMR. <b>2011</b> , 27, 14460-71	209

1046	Effect of Solution pH on the Carbon Microsphere Synthesized by Hydrothermal Carbonization. <b>2011</b> , 11, 1322-1327		32
1045	Intrinsically fluorescent carbon dots with tunable emission derived from hydrothermal treatment of glucose in the presence of monopotassium phosphate. <b>2011</b> , 47, 11615-7		448
1044	High density hydrogen storage in superactivated carbons from hydrothermally carbonized renewable organic materials. <b>2011</b> , 4, 1400		339
1043	Facile synthesis of Montroseite VOOH, Paramontroseite VO2 and V2O3-VO2 carbonaceous core-shell microspheres. <b>2011</b> , 13, 2049-2054		16
1042	Preparation and mechanism of magnetic carbonaceous polysaccharide microspheres by low-temperature hydrothermal method. <b>2011</b> , 323, 2741-2747		17
1041	Hydrothermal carbonization of anaerobically digested maize silage. <b>2011</b> , 102, 9255-60		263
1040	Intrinsically fluorescent nitrogen-containing carbon nanoparticles synthesized by a hydrothermal process. <b>2011</b> , 49, 5207-5212		139
1039	The formation of a hydrothermal carbon coating on graphite microfiber felts for using as structured acid catalyst. <b>2011</b> , 50, 1363-1363		12
1038	Hydrothermal Carbonization of Abundant Renewable Natural Organic Chemicals for High-Performance Supercapacitor Electrodes. <b>2011</b> , n/a-n/a		
1037	Formation mechanism of novel two-dimensional single crystalline dendritic copper plates in an aqueous environment. <b>2011</b> , 59, 7177-7188		6
1036	Hydrothermal synthesis, characterization, and KOH activation of carbon spheres from glucose. <b>2011</b> , 346, 999-1004		246
1035	Hydrothermal Carbonization of Abundant Renewable Natural Organic Chemicals for High-Performance Supercapacitor Electrodes. <b>2011</b> , 1, 356-361		470
1034	Deep-eutectic-solvent-assisted synthesis of hierarchical carbon electrodes exhibiting capacitance retention at high current densities. <i>Chemistry - A European Journal</i> , <b>2011</b> , 17, 10533-7	4.8	73
1033	Controlled synthesis of Ag/Ag/C hybrid nanostructures and their surface-enhanced Raman scattering properties. <i>Chemistry - A European Journal</i> , <b>2011</b> , 17, 13386-90	4.8	8
1032	One-pot synthesis of carbonaceous monolith with surface sulfonic groups and its carbonization/activation. <b>2011</b> , 49, 1811-1820		77
1031	Hydrothermal carbonization of biomass as a route for the sequestration of CO2: Chemical and structural properties of the carbonized products. <b>2011</b> , 35, 3152-3159		263
1030	Simple approach to carboxyl-rich materials through low-temperature heat treatment of hydrothermal carbon in air. <b>2011</b> , 257, 8686-8691		88
1029	Enhanced C2H5OH sensing characteristics of nano-porous In2O3 hollow spheres prepared by sucrose-mediated hydrothermal reaction. <b>2011</b> , 155, 512-518		82

1028	Synthesis of Colloidal Carbon Spheres by Hydrothermal Carbonization of Glucose at Different Initial pH. <b>2011</b> , 685, 123-129	7
1027	MnO2/C core-shell composite as electrode material in supercapacitors. 2012,	
1026	Sugar beet (L.) growth reduction caused by hydrochar is related to nitrogen supply. <b>2012</b> , 41, 1067-75	56
1025	Carbohydrate-derived hydrothermal carbons: a thorough characterization study. <b>2012</b> , 28, 12373-83	212
1024	Nano-Felencapsulated in microcarbon spheres: synthesis, characterization, and environmental applications. <b>2012</b> , 4, 6235-41	166
1023	Intrinsically sulfur- and nitrogen-co-doped carbons from thiazolium salts. <i>Chemistry - A European Journal</i> , <b>2012</b> , 18, 15416-23	72
1022	Synthesis of Sludge@Carbon Nanocomposite for the Recovery of as (V) from Wastewater. <b>2012</b> , 16, 378-390	8
1021	Microcosm study on the decomposability of hydrochars in a Cambisol. <b>2012</b> , 47, 250-259	35
1020	Facile functionalization of HTC-derived carbon microspheres. <b>2012</b> , 48, 10984-6	12
1019	A visible-light-driven solid state photo-Fenton reagent based on magnetite/carboxylate-rich carbon spheres. <b>2012</b> , 14, 5710	17
1018	Control of the morphology and chemical properties of carbon spheres prepared from glucose by a hydrothermal method. <b>2012</b> , 27, 1117-1123	74
1017	Thermal conversion of municipal solid waste via hydrothermal carbonization: comparison of carbonization products to products from current waste management techniques. <b>2012</b> , 32, 1353-65	130
1016	Photoluminescent carbogenic nanoparticles directly derived from crude biomass. 2012, 14, 3141	60
1015	Hybridization of graphene sheets and carbon-coated Fe3O4 nanoparticles as a synergistic adsorbent of organic dyes. <b>2012</b> , 22, 25108	195
1014	Sustainable and hierarchical porous Enteromorpha prolifera based carbon for CO2 capture. <b>2012</b> , 229-230, 183-91	91
1013	Selective solid-phase extraction of uranium by salicylideneimine-functionalized hydrothermal carbon. <b>2012</b> , 229-230, 321-30	127
1012	Gd2O2S:Eu3+ and Gd2O2S:Eu3+/Gd2O2S hollow microspheres: Solvothermal preparation and luminescence properties. <b>2012</b> , 532, 34-40	26
1011	Echitin nanofibrils for self-sustaining hydrogels preparation via hydrothermal treatment. <b>2012</b> , 90, 1509-14	34

1010	Hydrogen peroxide modification enhances the ability of biochar (hydrochar) produced from hydrothermal carbonization of peanut hull to remove aqueous heavy metals: Batch and column tests. <i>Chemical Engineering Journal</i> , <b>2012</b> , 200-202, 673-680	451
1009	Preparation and Catalysis of Carbon-Supported Iron Catalysts for Fischer Tropsch Synthesis. <b>2012</b> , 4, 1498-1511	81
1008	Synthesis and Characterization of Carbonaceous Materials from Saccharides (Glucose and Lactose) and Two Waste Biomasses by Hydrothermal Carbonization. <b>2012</b> , 51, 9145-9152	67
1007	Black perspectives for a green future: hydrothermal carbons for environment protection and energy storage. <b>2012</b> , 5, 6796	631
1006	Hydrothermal Carbons: Synthesis, Characterization, and Applications. <b>2012</b> , 351-399	10
1005	A one-pot hydrothermal synthesis of tunable dual heteroatom-doped carbon microspheres. <b>2012</b> , 14, 741	142
1004	Preparation and adsorption performance of 5-azacytosine-functionalized hydrothermal carbon for selective solid-phase extraction of uranium. <b>2012</b> , 386, 291-9	71
1003	Synthesis and characterization of activated carbon-coated SiO2/TiO2\(\mathbb{R}\)Cx nanoporous composites with high adsorption capability and visible light photocatalytic activity. <b>2012</b> , 135, 579-586	19
1002	Rattle-type carbon-alumina core-shell spheres: synthesis and application for adsorption of organic dyes. <b>2012</b> , 4, 2174-9	115
1001	Glucose-promoted Zn-based metal-organic framework/graphene oxide composites for hydrogen sulfide removal. <b>2012</b> , 4, 4942-7	116
1000	Organic chemistry under hydrothermal conditions. <b>2012</b> , 85, 89-103	11
999	Synthesis of porous hollow Fe3O4 beads and their applications in lithium ion batteries. <b>2012</b> , 22, 5006	215
998	Hydrothermal processing of algal biomass for the production of biofuels and chemicals. <b>2012</b> , 3, 603-623	99
997	The effect of the hydrothermal carbonization process on palm oil empty fruit bunch. <b>2012</b> , 47, 82-90	76
996	Carbonaceous hydrogels based on hydrothermal carbonization of glucose with chitin nanofibers. <b>2012</b> , 8, 3522	19
995	A one-pot hydrothermal synthesis of sulfur and nitrogen doped carbon aerogels with enhanced electrocatalytic activity in the oxygen reduction reaction. <b>2012</b> , 14, 1515	494
994	First identification of primary nanoparticles in the aggregation of HMF. <b>2012</b> , 7, 38	20
993	New crystal structure: synthesis and characterization of hexagonal wurtzite MnO. <b>2012</b> , 134, 8392-5	35

## (2013-2012)

992	Economical, green synthesis of fluorescent carbon nanoparticles and their use as probes for sensitive and selective detection of mercury(II) ions. <b>2012</b> , 84, 5351-7	842
991	Borax-Mediated Formation of Carbon Aerogels from Glucose. <b>2012</b> , 22, 3254-3260	136
990	Renewable nitrogen-doped hydrothermal carbons derived from microalgae. <b>2012</b> , 5, 1834-40	108
989	Hydrophobic precipitation of carbonaceous spheres from fructose by a hydrothermal process. <b>2012</b> , 50, 2155-2161	76
988	Deactivation of sulfonated hydrothermal carbons in the presence of alcohols: Evidences for sulfonic esters formation. <b>2012</b> , 289, 73-79	70
987	Facile synthesis of poly(amidoamine)-modified carbon nanospheres supported Pt nanoparticles for direct methanol fuel cells. <b>2012</b> , 201, 81-87	31
986	Hierarchical porous carbon hollow-spheres as a high performance electrical double-layer capacitor material. <b>2012</b> , 211, 92-96	116
985	A green chemical approach to the synthesis of photoluminescent ZnO hollow spheres with enhanced photocatalytic properties. <b>2012</b> , 186, 17-22	56
984	Microwave-assisted hydrothermal synthesis of porous SnO2 nanotubes and their lithium ion storage properties. <b>2012</b> , 190, 104-110	36
983	Polypyrrole-Derived Activated Carbons for High-Performance Electrical Double-Layer Capacitors with Ionic Liquid Electrolyte. <b>2012</b> , 22, 827-834	359
982	Hydrothermal treatment of grass: a low-cost, green route to nitrogen-doped, carbon-rich, photoluminescent polymer nanodots as an effective fluorescent sensing platform for label-free detection of Cu(II) ions. <b>2012</b> , 24, 2037-41	1151
981	Removal of uranium(VI) from aqueous solutions by carboxyl-rich hydrothermal carbon spheres through low-temperature heat treatment in air. <b>2013</b> , 298, 361-368	23
980	Sorption study of uranium on carbon spheres hydrothermal synthesized with glucose from aqueous solution. <b>2013</b> , 295, 1775-1782	36
979	Effects of alkaline precipitating agents on synthesis of magnetite nanomaterials by hydrothermal d-glucose method. <b>2013</b> , 15, 1	5
978	Synthesis of high carbon content microspheres using 2-step microwave carbonization, and the influence of nitrogen doping on catalytic activity. <b>2013</b> , 60, 307-316	21
977	Original design of nitrogen-doped carbon aerogels from sustainable precursors: application as metal-free oxygen reduction catalysts. <b>2013</b> , 15, 2514	123
976	Influence of reaction time and temperature on product formation and characteristics associated with the hydrothermal carbonization of cellulose. <b>2013</b> , 138, 180-90	163
975	Hydrothermal reactions of agricultural and food processing wastes in sub- and supercritical water: a review of fundamentals, mechanisms, and state of research. <b>2013</b> , 61, 8003-25	169

974	One-pot synthesis of Cullarbon hybrid hollow spheres. <b>2013</b> , 62, 472-480	22
973	Effect of residence time on chemical and structural properties of hydrochar obtained by hydrothermal carbonization of water hyacinth. <b>2013</b> , 58, 376-383	154
972	Microwave-assisted rapid green synthesis of photoluminescent carbon nanodots from flour and their applications for sensitive and selective detection of mercury(II) ions. <b>2013</b> , 184, 156-162	184
971	Formation, molecular structure, and morphology of humins in biomass conversion: influence of feedstock and processing conditions. <b>2013</b> , 6, 1745-58	380
970	Carbohydrate-Derived Carbon Sheaths on TiO2 Nanoparticle Photoanodes for Efficiency Enhancement in Dye-Sensitized Solar Cells. <b>2013</b> , 30, 1030-1033	7
969	One-pot colloidal chemistry route to homogeneous and doped colloidosomes. <b>2013</b> , 135, 12928-31	50
968	Ascorbic acid assisted green route for synthesis of water dispersible carbon dots. <b>2013</b> , 29, 401-403	16
96 <del>7</del>	Hydrothermal synthesis of highly porous carbon monoliths from carbohydrates and phloroglucinol. <b>2013</b> , 3, 17088	35
966	A simple additive-free approach for the synthesis of uniform manganese monoxide nanorods with large specific surface area. <b>2013</b> , 8, 166	42
965	Sodium salt effect on hydrothermal carbonization of biomass: a catalyst for carbon-based nanostructured materials for lithium-ion battery applications. <b>2013</b> , 15, 2722	51
964	One-pot synthesis of uniform Fe3O4 nanocrystals encapsulated in interconnected carbon nanospheres for superior lithium storage capability. <b>2013</b> , 57, 130-138	93
963	Effects of biomass types and carbonization conditions on the chemical characteristics of hydrochars. <b>2013</b> , 61, 9401-11	89
962	One-step synthesis of intrinsically functionalized fluorescent carbon nanoparticles by hydrothermal carbonization from different carbon sources. <b>2013</b> , 15, 1	8
961	One-Pot Synthesis of Fluorescent Carbon Dots from Orange Waste Peels. <b>2013</b> , 52, 15673-15678	306
960	One step synthesis of Bi@Bi2O3@carboxylate-rich carbon spheres with enhanced photocatalytic performance. <b>2013</b> , 48, 4601-4605	18
959	Hydrothermal nanocasting: Synthesis of hierarchically porous carbon monoliths and their application in lithiumBulfur batteries. <b>2013</b> , 61, 245-253	115
958	Characterization of Hydrothermal Carbonization Materials. 2013, 151-211	3
957	Hydrothermally Synthesized Carbonaceous Nanocomposites. <b>2013</b> , 101-124	

956	Applications of Hydrothermal Carbon in Modern Nanotechnology. <b>2013</b> , 213-294	3
955	One-pot hydrothermal synthesis and reusable oil-adsorbing properties of porous carbonaceous monoliths using multi-walled carbon nanotubes as templates. <b>2013</b> , 3, 14938	13
954	Tunable nitrogen-doped carbon aerogels as sustainable electrocatalysts in the oxygen reduction reaction. <b>2013</b> , 1, 4002	82
953	Freestanding light scattering hollow silver spheres prepared by a facile sacrificial templating method and their application in dye-sensitized solar cells. <b>2013</b> , 225, 46-50	10
952	Green, low-cost synthesis of photoluminescent carbon dots by hydrothermal treatment of willow bark and their application as an effective photocatalyst for fabricating Au nanoparticles duced graphene oxide nanocomposites for glucose detection. 2013, 3, 1027	150
951	Non-catalytic and catalytic hydrothermal liquefaction of biomass. 2013, 39, 485-498	64
950	Biopolymere als vielseitige Ressource f⊞die Nanochemie. <b>2013</b> , 125, 1132-1145	7
949	Biopolymers as a flexible resource for nanochemistry. <b>2013</b> , 52, 1096-108	108
948	Mesopore-functional carbon sphere nanochains and their integration with alloy nanoparticles for enhanced electrochemical performances. <b>2013</b> , 114, 334-340	4
947	Selective ring CH bonds activation of toluene over Fe/activated carbon catalyst. <b>2013</b> , 377, 143-153	17
946	Carbonaceous spheres⊞n unusual template for solid metal oxide mesoscale spheres: Application to ZnO spheres. <b>2013</b> , 202, 291-299	15
945	Experimental studies on the pyrolysis of humins from the acid-catalysed dehydration of C6-sugars.  Journal of Analytical and Applied Pyrolysis, <b>2013</b> , 104, 299-307	61
944	Hierarchically porous Co3O4 hollow spheres with tunable pore structure and enhanced catalytic activity. <b>2013</b> , 49, 7427-9	54
943	Liquid-gas boundary catalysis by using gold/polystyrene-coated hollow titania. <b>2013</b> , 394, 490-7	2
942	A combined experimental and theoretical study of micronized coal reburning. <b>2013</b> , 7, 119-126	O
941	Hollow Carbon Nanoparticles of Tunable Size and Wall Thickness by Hydrothermal Treatment of Ecyclodextrin Templated by F127 Block Copolymers. <b>2013</b> , 25, 704-710	86
940	Emulsion-templated macroporous carbons synthesized by hydrothermal carbonization and their application for the enzymatic oxidation of glucose. <b>2013</b> , 6, 701-10	48
939	Hydrothermal conversion of glucose in multiscale batch processes. Analysis of the gas, liquid and solid residues. <b>2013</b> , 79, 76-83	18

938	Influence of NH4 + on the preparation of carbonaceous spheres by a hydrothermal process. <b>2013</b> , 48, 3341-3346	8
937	One-step solvothermal carbonization to microporous carbon materials derived from cyclodextrins. <b>2013</b> , 1, 9456	24
936	Synthesis of carbonaceous nanowire membrane for removing heavy metal ions and high water flux.  Chemical Engineering Journal, 2013, 226, 217-226	16
935	One-pot hydrothermal synthesis of highly luminescent nitrogen-doped amphoteric carbon dots for bioimaging from Bombyx mori silk - natural proteins. <b>2013</b> , 1, 2868-2873	388
934	Facile carbonaceous microsphere templated synthesis of Co3O4 hollow spheres and their electrochemical performance in supercapacitors. <b>2013</b> , 6, 87-98	81
933	Chemical, structural and combustion characteristics of carbonaceous products obtained by hydrothermal carbonization of palm empty fruit bunches. <b>2013</b> , 135, 683-9	297
932	Hydrothermal liquefaction of cellulose in subcritical waterthe role of crystallinity on the cellulose reactivity. <b>2013</b> , 3, 11035	56
931	Hydrothermal carbon-based nanostructured hollow spheres as electrode materials for high-power lithium-sulfur batteries. <b>2013</b> , 15, 6080-7	156
930	Molecular-level understanding of the carbonisation of polysaccharides. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 9351-7	30
929	Chemical modification of biomass residues during hydrothermal carbonization LWhat makes the difference, temperature or feedstock?. <b>2013</b> , 54, 91-100	135
928	Effect of Methanol on the Liquefaction Reaction of Biomass in Hot Compressed Water under Microwave Energy. <b>2013</b> , 27, 4791-4795	9
927	Solid-State Nuclear Magnetic Resonance Characterization of Chars Obtained from Hydrothermal Carbonization of Corncob and Miscanthus. <b>2013</b> , 27, 303-309	31
926	Carbon spheres obtained via citric acid catalysed hydrothermal carbonisation of cellulose. <b>2013</b> , 17, 546-551	28
925	Synthesis of carbon coated Fe3O4/SnO2 composite beads and their application as anodes for lithium ion batteries. <b>2013</b> , 28, 254-259	10
924	Fabrication of TiO2@Yeast-Carbon Hybrid Composites with the Raspberry-Like Structure and Their Synergistic Adsorption-Photocatalysis Performance. <b>2013</b> , 2013, 1-8	9
923	Carbon materials for supercapacitor application by hydrothermal carbonization of D-glucose. <b>2013</b> , 49, 012020	1
922	Synthesis of Spherical LiFePO4/C Composites as Cathode Material of Lithium-Ion Batteries by a Novel Glucose Assisted Hydrothermal Method. <b>2013</b> , 787, 58-64	4
921	Hydrothermal Synthesis of Cu@C Composite Spheres by a One-Step Method and Their Use as Sacrificial Templates to Synthesize a CuO@SiO2 CoreBhell Structure. <b>2013</b> , 2013, n/a-n/a	10

920	High Power Density Supercapacitors Based on the Carbon Dioxide Activated D-Glucose Derived Carbon Electrodes and Acetonitrile Electrolyte. <b>2013</b> , 160, A1834-A1841	41
919	EXPLORING THE POTENTIAL FORMATION OF ORGANIC SOLIDS IN CHONDRITES AND COMETS THROUGH POLYMERIZATION OF INTERSTELLAR FORMALDEHYDE. <b>2013</b> , 771, 19	69
918	Properties and degradability of hydrothermal carbonization products. 2013, 42, 1565-73	45
917	Recovery of Value-Added Products from Hydrothermal Carbonization of Sewage Sludge. <b>2013</b> , 2013, 1-6	27
916	Hydrothermal Carbonization of Spent Osmotic Solution (SOS) Generated from Osmotic Dehydration of Blueberries. <b>2014</b> , 4, 239-259	4
915	Hydrothermal conversion of bamboo: identification and distribution of the components in solid residue, water-soluble and acetone-soluble fractions. <b>2014</b> , 62, 12360-5	16
914	Hydrothermal preparation of hybrid carbon/silica monolithic capillary column for liquid chromatography. <b>2014</b> , 37, 1911-8	10
913	Chemical approach to a new crystal structure: phase control of manganese oxide on a carbon sphere template. <b>2014</b> , 9, 3525-32	3
912	Effects of activating agents of acids and alkalis on electrochemical properties of carbon spheres. <b>2014</b> , 16, 1	5
911	Manganese ion-assisted assembly of superparamagnetic graphene oxide microbowls. <b>2014</b> , 104, 121602	2
910	Magnetite/Bi-Doped Carboxylate-Rich Carbon Spheres IA Highly Efficient Magnetic Photocatalyst Based on Dimetallic FeII/FeIII and BiIII/BiIV Photoredox Cycles. <b>2014</b> , 2014, 994-1000	11
909	Anionic ligand assisted synthesis of 3-D hollow TiO2 architecture with enhanced photoelectrochemical performance. <b>2014</b> , 30, 15531-9	9
908	Enhanced hydrogen production from anaerobic fermentation of rice straw pretreated by hydrothermal technology. <b>2014</b> , 171, 145-51	40
907	Analysis of product distribution and characteristics in hydrothermal liquefaction of barley straw in subcritical and supercritical water. <b>2014</b> , 33, 737-743	45
906	Iron oxide nanoparticles embedded in activated carbons prepared from hydrothermally treated waste biomass. <b>2014</b> , 7, 875-82	34
905	Thiol-functionalized fructose-derived nanoporous carbon as a support for gold nanoparticles and its application for aerobic oxidation of alcohols in water. <b>2014</b> , 28, 576-583	19
904	TEM for Characterization of Core-Shell Nanomaterials. <b>2014</b> , 243-285	
903	Novel Two-Dimensional Carbon Nanomaterials: Synthesis and Excellent Lithium Storage Properties. <b>2014</b> , 1070-1072, 483-487	

902	Porous SnO2@C/graphene nanocomposite with 3D carbon conductive network as a superior anode material for lithium-ion batteries. <b>2014</b> , 116, 103-110	122
901	Characterization of biocoals and dissolved organic matter phases obtained upon hydrothermal carbonization of brewer's spent grain. <b>2014</b> , 164, 162-9	79
900	Carbon dots with tunable emission, controllable size and their application for sensing hypochlorous acid. <b>2014</b> , 151, 100-105	64
899	Facile synthesis of polypyrrole nanospheres and their carbonized products for potential application in high-performance supercapacitors. <b>2014</b> , 55, 2817-2824	39
898	Hydrothermal synthesis of magnetic carbon microspheres for effective adsorption of Cd(II) in water. <b>2014</b> , 89, 1051-1059	12
897	An easy approach of preparing strongly luminescent carbon dots and their polymer based composites for enhancing solar cell efficiency. <b>2014</b> , 70, 190-198	141
896	Removal of uranium(VI) from aqueous solutions by new phosphorus-containing carbon spheres synthesized via one-step hydrothermal carbonization of glucose in the presence of phosphoric acid. <b>2014</b> , 299, 1479-1487	26
895	Hydrolysis of cellulose to produce glucose with solid acid catalysts in 1-butyl-3-methyl-imidazolium chloride ([bmIm][Cl]) with sequential water addition. <b>2014</b> , 4, 323-331	7
894	Hydrothermal carbonization of loblolly pine: reaction chemistry and water balance. 2014, 4, 311-321	142
893	One-step preparation of nitrogen-doped and surface-passivated carbon quantum dots with high quantum yield and excellent optical properties. <b>2014</b> , 4, 7648	91
892	Preparation of magnetic porous carbon from waste hydrochar by simultaneous activation and magnetization for tetracycline removal. <b>2014</b> , 154, 209-14	252
891	Synthesis of clay/carbon adsorbent through hydrothermal carbonization of cellulose on palygorskite. <b>2014</b> , 95, 60-66	55
890	Fabrication of nitrogen-doped hierarchically porous carbons through a hybrid dual-template route for CO2 capture and haemoperfusion. <b>2014</b> , 76, 84-95	85
889	In situ growth of copper nanocrystals from carbonaceous microspheres with electrochemical glucose sensing properties. <b>2014</b> , 50, 118-127	5
888	Highly selective n-butanol gas sensor based on mesoporous SnO2 prepared with hydrothermal treatment. <b>2014</b> , 201, 153-159	108
887	The Hydrochar Characters of Municipal Sewage Sludge Under Different Hydrothermal Temperatures and Durations. <b>2014</b> , 13, 471-482	88
886	Always look on the "light" side of life: sustainable carbon aerogels. <b>2014</b> , 7, 670-89	128
885	Carbonization Under Pressure. <b>2014</b> , 67-85	3

884	Spherical carbons: Synthesis, characterization and activation processes. <b>2014</b> , 68, 296-307	200
883	Energy recycling from sewage sludge by producing solid biofuel with hydrothermal carbonization. <b>2014</b> , 78, 815-821	159
882	Carbon nanofibres from fructose using a light-driven high-temperature spinning disc processor. <b>2014</b> , 50, 1478-80	9
881	Characterization of biomass and its derived char using 13C-solid state nuclear magnetic resonance. <b>2014</b> , 16, 4839-4869	64
880	Histidine-derived nontoxic nitrogen-doped carbon dots for sensing and bioimaging applications. <b>2014</b> , 30, 13542-8	121
879	Controlled Synthesis of Ordered Mesoporous Carbohydrate-Derived Carbons with Flower-like Structure and N-Doping by Self-Transformation. <b>2014</b> , 26, 6872-6877	70
878	Fluorescent carbonaceous nanodots for noninvasive glioma imaging after angiopep-2 decoration. <b>2014</b> , 25, 2252-9	35
877	Functionalized Carbon Spheres for Extraction of Nanoparticles and Catalyst Support in Water. <b>2014</b> , 2, 2675-2682	48
876	Carbon nanodots prepared from o-phenylenediamine for sensing of Cu(2+) ions in cells. <b>2014</b> , 6, 13119-25	169
875	Fundamental Science of Carbon Materials. <b>2014</b> , 17-217	9
8 <sub>75</sub>	Fundamental Science of Carbon Materials. 2014, 17-217  A simple one-step method to prepare fluorescent carbon dots and their potential application in non-invasive glioma imaging. 2014, 6, 10040-7	9 80
	A simple one-step method to prepare fluorescent carbon dots and their potential application in	
874	A simple one-step method to prepare fluorescent carbon dots and their potential application in non-invasive glioma imaging. <b>2014</b> , 6, 10040-7  Valorization of Biorefinery Side-Stream Products: Combination of Humins with Polyfurfuryl Alcohol	80
8 <sub>74</sub> 8 <sub>73</sub>	A simple one-step method to prepare fluorescent carbon dots and their potential application in non-invasive glioma imaging. <b>2014</b> , 6, 10040-7  Valorization of Biorefinery Side-Stream Products: Combination of Humins with Polyfurfuryl Alcohol for Composite Elaboration. <b>2014</b> , 2, 2182-2190  Simple small molecule carbon source strategy for synthesis of functional hydrothermal carbon:	80 70
8 <sub>74</sub> 8 <sub>73</sub> 8 <sub>72</sub>	A simple one-step method to prepare fluorescent carbon dots and their potential application in non-invasive glioma imaging. 2014, 6, 10040-7  Valorization of Biorefinery Side-Stream Products: Combination of Humins with Polyfurfuryl Alcohol for Composite Elaboration. 2014, 2, 2182-2190  Simple small molecule carbon source strategy for synthesis of functional hydrothermal carbon: preparation of highly efficient uranium selective solid phase extractant. 2014, 2, 1550-1559  Manganese dioxide coreBhell nanowires in situ grown on carbon spheres for supercapacitor	80 70 84
874 873 872 871	A simple one-step method to prepare fluorescent carbon dots and their potential application in non-invasive glioma imaging. 2014, 6, 10040-7  Valorization of Biorefinery Side-Stream Products: Combination of Humins with Polyfurfuryl Alcohol for Composite Elaboration. 2014, 2, 2182-2190  Simple small molecule carbon source strategy for synthesis of functional hydrothermal carbon: preparation of highly efficient uranium selective solid phase extractant. 2014, 2, 1550-1559  Manganese dioxide coreEhell nanowires in situ grown on carbon spheres for supercapacitor application. 2014, 16, 4016	80 70 84 28
874 873 872 871	A simple one-step method to prepare fluorescent carbon dots and their potential application in non-invasive glioma imaging. 2014, 6, 10040-7  Valorization of Biorefinery Side-Stream Products: Combination of Humins with Polyfurfuryl Alcohol for Composite Elaboration. 2014, 2, 2182-2190  Simple small molecule carbon source strategy for synthesis of functional hydrothermal carbon: preparation of highly efficient uranium selective solid phase extractant. 2014, 2, 1550-1559  Manganese dioxide coreëhell nanowires in situ grown on carbon spheres for supercapacitor application. 2014, 16, 4016  Hydrothermal hydrolysis of grape seeds to produce bio-oil. 2014, 4, 30332  Facile hydrothermal synthesis of SnO2/C microspheres and double layered coreëhell SnO2	80 70 84 28

866	Phosphorus reclamation through hydrothermal carbonization of animal manures. <b>2014</b> , 48, 10323-9		153
865	A review of hydrothermal biomass processing. <b>2014</b> , 40, 673-687		378
864	Soft-templating pathway to create nanostructured MgAl spinel as high-temperature absorbent for SO2. <b>2014</b> , 21, 947-956		2
863	A new metal-free carbon hybrid for enhanced photocatalysis. <b>2014</b> , 6, 16745-54		144
862	Furfural-induced hydrothermal synthesis of ZnO@C gemel hexagonal microrods with enhanced photocatalytic activity and stability. <b>2014</b> , 6, 8560-6		58
861	Interplay of carbon-silica sources on the formation of hierarchical porous composite materials for biological applications such as lipase immobilization. <b>2014</b> , 43, 199-206		2
860	Tin dioxide@carbon core-shell nanoarchitectures anchored on wrinkled graphene for ultrafast and stable lithium storage. <b>2014</b> , 6, 7434-43		39
859	Influence of Process Water Reuse on the Hydrothermal Carbonization of Paper. <b>2014</b> , 2, 2165-2171		58
858	Activated carbon/ZnO composites prepared using hydrochars as intermediate and their electrochemical performance in supercapacitor. <b>2014</b> , 148, 380-386		46
857	Behavior of selected hydrolyzed and dehydrated products during hydrothermal carbonization of biomass. <b>2014</b> , 169, 352-361		104
856	Preparation of nanostructured molybdenum carbides for CO hydrogenation. <b>2014</b> , 4, 20948-20954		27
855	Synthesis of carbon/carbon composites by hydrothermal carbonization using starch as carbon source. <b>2014</b> , 4, 12586-12589		17
854	Fabrication of Fe3O4@C coreBhell nanotubes and their application as a lightweight microwave absorbent. <b>2014</b> , 4, 55738-55744		48
853	Removal of hydrophilic ionic liquids from aqueous solutions by adsorption onto high surface area oxygenated carbonaceous material. <i>Chemical Engineering Journal</i> , <b>2014</b> , 256, 407-414	1.7	43
852	Nitrogen Doping of Hydrochars Produced Hydrothermal Treatment of Sucrose in H2O, H2SO4, and NaOH. <b>2014</b> , 2, 755-764		68
851	An Efficient Way To Introduce Hierarchical Structure into Biomass-Based Hydrothermal Carbonaceous Materials. <b>2014</b> , 2, 2435-2441		77
850	A facile one-pot route towards three-dimensional graphene-based microporous N-doped carbon composites. <b>2014</b> , 4, 45619-45624		9
849	Clean solid biofuel production from high moisture content waste biomass employing hydrothermal treatment. <b>2014</b> , 131, 345-367		248

848	Enzyme-assisted hydrothermal treatment of food waste for co-production of hydrochar and bio-oil. <b>2014</b> , 168, 267-74		49	
847	Hydrothermal carbonization (HTC): near infrared spectroscopy and partial least-squares regression for determination of selective components in HTC solid and liquid products derived from maize silage. <b>2014</b> , 161, 91-101		57	
846	A review of potential remediation techniques for uranium(VI) ion retrieval from contaminated aqueous environment. <i>Journal of Environmental Chemical Engineering</i> , <b>2014</b> , 2, 1621-1634	6.8	124	
845	Carbon-ensemble-manipulated ZnS heterostructures for enhanced photocatalytic H2 evolution. <b>2014</b> , 6, 9673-80		64	
844	Hydrothermal preparation and characterization of novel corncob-derived solid acid catalysts. <b>2014</b> , 62, 5345-53		31	
843	Composites of boron-doped carbon nanosheets and iron oxide nanoneedles: fabrication and lithium ion storage performance. <b>2014</b> , 2, 9111-9117		20	
842	Facile and green synthesis of a surfactant-free Au clusters/reduced graphene oxide composite as an efficient electrocatalyst for the oxygen reduction reaction. <b>2014</b> , 2, 13682		32	
841	Classification of carbon materials for developing structure-properties relationships based on the aggregate state of the precursors. <b>2014</b> , 35, 778-782		2	
840	Wet oxidation of charlwater-slurries from hydrothermal carbonization of paper and brewer's spent grains. <b>2014</b> , 128, 425-431		16	
839	A simple one-step method for preparation of fluorescent carbon nanospheres and the potential application in cell organelles imaging. <b>2014</b> , 422, 25-9		40	
838	Fischer Tropsch Synthesis: Higher Oxygenate Selectivity of Cobalt Catalysts Supported on Hydrothermal Carbons. <b>2014</b> , 4, 1662-1672		33	
837	From metal-organic framework to intrinsically fluorescent carbon nanodots. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 8279-82	4.8	50	
836	PEGylated fluorescent carbon nanoparticles for noninvasive heart imaging. <b>2014</b> , 25, 1061-8		37	
835	The mechanism of blue photoluminescence from carbon nanodots. <b>2014</b> , 16, 4981-4986		45	
834	Design and synthesis of porous nano-sized Sn@C/graphene electrode material with 3D carbon network for high-performance lithium-ion batteries. <b>2014</b> , 604, 188-195		37	
833	Continuous-Flow Synthesis of Functional Carbonaceous Particles from Biomass under Hydrothermal Carbonization. <b>2014</b> , 4, 195-199		4	
832	Preparation and characterisation of carbonaceous products with three-dimensional grape-bunch structure via self-assembling of saccharides and hydroxylated multi-wall carbon nanotubes through hydrothermal method. <b>2015</b> , 19, S2-125-S2-132			
831	Synthesis and characterization of hydrochars produced by hydrothermal carbonization of oil palm shell. <b>2015</b> , 93, 1916-1921		48	

830	H2O2-Assisted Hydrothermal Process: A Green, Versatile Route to Synthesize Size-Controllable Nitrogen-Doped Fluorescent Carbon Nanoparticles from Natural Macromolecules. <b>2015</b> , 32, 176-181	8
829	Influence of UV Radiation on the Physical-chemical and Mechanical Properties of Banana Fiber. <b>2015</b> , 18, 265-272	22
828	Spectroscopic Analysis of Heterogeneous Biocatalysts for Biodiesel Production from Expired Sunflower Cooking Oil. <b>2015</b> , 2015, 1-8	14
827	Carbohydrate-based activated carbon with high surface acidity and basicity for nickel removal from synthetic wastewater. <b>2015</b> , 5, 52048-52056	16
826	A durable surface-enhanced Raman scattering substrate: ultrathin carbon layer encapsulated Ag nanoparticle arrays on indium-tin-oxide glass. <b>2015</b> , 17, 14849-55	6
825	Enhancement of electrochemical performances for LiFePO4/C with 3D-grape-bunch structure and selection of suitable equivalent circuit for fitting EIS results. <b>2015</b> , 291, 75-84	29
824	Acid/base bifunctional carbonaceous nanomaterial with large surface area: Preparation, characterization, and adsorption properties for cationic and anionic compounds. <b>2015</b> , 162, 149-161	11
823	Preparation of potato starch-based carbon particles by low-temperature carbonization in oil. <b>2015</b> , 106, 1196-1201	4
822	Preparation of graphene/metal-organic composites and their adsorption performance for benzene and ethanol. <b>2015</b> , 30, 566-571	23
821	Hydrothermal carbonization: combination of heat of reaction measurements and theoretical estimations. <b>2015</b> , 119, 1941-1953	9
820	Synthesis of hierarchical worm-like SnO2@C aggregates and their enhanced lithium storage properties. <b>2015</b> , 620, 407-412	14
819	Hollow Al2O3 spheres prepared by a simple and tunable hydrothermal method. <b>2015</b> , 5, 13385-13391	15
818	Full, Reactive Solubilization of Humin Byproducts by Alkaline Treatment and Characterization of the Alkali-Treated Humins Formed. <b>2015</b> , 3, 533-543	45
817	Carbon quantum dots hydrothermally synthesized from chitin. <b>2015</b> , 57, 16-22	14
816	Facile hydrothermal synthesis of tubular kapok fiber/MnO2 composites and application in supercapacitors. <b>2015</b> , 5, 64065-64075	24
815	Co3Fe7/C coreBhell microspheres as a lightweight microwave absorbent. <b>2015</b> , 163, 431-438	13
814	Amino acid functionalized blue and phosphorous-doped green fluorescent carbon dots as bioimaging probe. <b>2015</b> , 5, 65913-65921	50
813	One-step, green, and economic synthesis of water-soluble photoluminescent carbon dots by hydrothermal treatment of wheat straw, and their bio-applications in labeling, imaging, and sensing. <b>2015</b> , 355, 1136-1144	97

## (2015-2015)

812	Structural characterization of 13C-enriched humins and alkali-treated 13C humins by 2D solid-state NMR. <b>2015</b> , 17, 4383-4392	107
811	Carbon-based strong solid acid for cornstarch hydrolysis. <b>2015</b> , 230, 163-168	37
810	Hydrothermal synthesis and characterization of carbon nanospheres: a mechanistic insight. <b>2015</b> , 5, 59491-5	9494
809	Octahedral coreBhell cuprous oxide/carbon with enhanced electrochemical activity and stability as anode for lithium ion batteries. <b>2015</b> , 70, 456-460	6
808	Combustion kinetics of hydrochar produced from hydrothermal carbonisation of Karanj (Pongamia pinnata) fruit hulls via thermogravimetric analysis. <b>2015</b> , 194, 14-20	59
807	Shell decoration of hydrothermally obtained colloidal carbon spheres with base metal nanoparticles. <b>2015</b> , 39, 6593-6601	9
806	Preparation of cage-like nano-CaCO3 hollow spheres for enhanced CO2 sorption. <b>2015</b> , 5, 65052-65057	17
805	Nitrogen- and oxygen-containing activated carbons from sucrose for electrochemical supercapacitor applications. <b>2015</b> , 5, 63000-63011	41
804	Synthesis of nitrogen-doped carbon nanostructures from polyurethane sponge for bioimaging and catalysis. <b>2015</b> , 7, 12284-90	20
803	Investigating the role of feedstock properties and process conditions on products formed during the hydrothermal carbonization of organics using regression techniques. <b>2015</b> , 187, 263-274	36
802	Fabrication of hierarchical cabbage-like carbonaceous materials by one-step cobalt-assisted hydrothermal carbonization of furfural. <b>2015</b> , 210, 149-160	12
801	A Novel Electrochemical Sensing Strategy for Rapid and Ultrasensitive Detection of 6-Benzylaminopurine in Sprout Vegetables by Hollow Core/Shell-Structured CuO@SiO2 Microspheres. <b>2015</b> , 8, 2504-2514	8
800	Non-invasive imaging of breast cancer using RGDyK functionalized fluorescent carbonaceous nanospheres. <b>2015</b> , 5, 25428-25436	11
799	Biomass-Derived Porous Carbon Materials: Synthesis and Catalytic Applications. <b>2015</b> , 7, 1608-1629	173
798	In vitro and in vivo toxicology of bare and PEGylated fluorescent carbonaceous nanodots in mice and zebrafish: the potential relationship with autophagy. <b>2015</b> , 5, 38547-38557	15
797	Changes in macro- and micronutrient contents of grasses and forbs following Miscanthus x´giganteus feedstock, hydrochar and biochar application to temperate grassland. <b>2015</b> , 70, 582-599	21
796	Solid vs. hollow oxide spheres obtained by hydrothermal carbonization of various types of carbohydrates. <b>2015</b> , 5, 31768-31771	7
795	Hydrothermal carbonization (HTC) of wheat straw: influence of feedwater pH prepared by acetic acid and potassium hydroxide. <b>2015</b> , 182, 336-344	179

794	Production of high surface area mesoporous activated carbons from waste biomass using hydrogen peroxide-mediated hydrothermal treatment for adsorption applications. <i>Chemical Engineering</i> 14.; <i>Journal</i> , <b>2015</b> , 273, 622-629	7 1	116
793	Strong Infrared Laser Ablation Produces White-Light-Emitting Materials via the Formation of Silicon and Carbon Dots in Silica Nanoparticles. <b>2015</b> , 119, 8266-8272	2	20
79 <sup>2</sup>	Yolk/shell nanoparticles: classifications, synthesis, properties, and applications. <b>2015</b> , 7, 19789-873	2	214
791	Activated Carbons Derived from Hydrothermally Carbonized Sucrose: Remarkable Adsorbents for Adsorptive Desulfurization. <b>2015</b> , 3, 2237-2246	8	30
790	Micro/nano-scaled carbon spheres based on hydrothermal carbonization of agarose. <b>2015</b> , 484, 386-393	4	<b>ļ</b> 1
789	Wet Torrefaction of Bamboo in Hydrochloric Acid Solution by Microwave Heating. <b>2015</b> , 3, 2022-2029	4	14
788	Blood Compatibility Evaluations of Fluorescent Carbon Dots. <b>2015</b> , 7, 19153-62	$\epsilon$	<b>6</b> 2
787	Facile template-directed synthesis of carbon-coated SnO2 nanotubes with enhanced Li-storage capabilities. <b>2015</b> , 163, 581-586	9	)
786	Enhancing pressurized water extraction of Eglucan from barley grain by adding CO2 under hydrothermal conditions. <b>2015</b> , 97, 45-54	2	20
785	Hydrothermal carbons produced from tannin by modification of the reaction medium: Addition of H + and Ag +. <b>2015</b> , 77, 364-374	3	31
7 <sup>8</sup> 4	Synthesis of a yolk/shell Fe3O4@poly(ionic liquid)s-derived nitrogen doped graphitic porous carbon materials and its application as support for nickel catalysts. <b>2015</b> , 5, 2258-2265	2	24
783	Capturing and using CO2 as feedstock with chemical looping and hydrothermal technologies. <b>2015</b> , 39, 1011-1047	4	ţo
782	Hydrothermal conversion of xylose, glucose, and cellulose under the catalysis of transition metal sulfates. <b>2015</b> , 118, 44-51	5	54
781	Removal of thorium(IV) from aqueous solutions by carboxyl-rich hydrothermal carbon spheres through low-temperature heat treatment in air. <b>2015</b> , 54, 2516-2529	7	7
780	Preparation and adsorption property of attapulgite/carbon nanocomposite. 2015, 34, 437-444	1	11
779	Design and fabrication of hierarchically porous carbon with a template-free method. <b>2014</b> , 4, 6349	6	55
778	Hydrothermal fractionation of grape seeds in subcritical water to produce oil extract, sugars and lignin. <b>2015</b> , 257, 160-168	1	19
777	Tuning hydrochar properties for enhanced mesopore development in activated carbon by hydrothermal carbonization. <b>2015</b> , 203, 178-185	5	53

## (2016-2015)

776	Synthesis of biocompatible and highly photoluminescent nitrogen doped carbon dots from lime: analytical applications and optimization using response surface methodology. <b>2015</b> , 47, 325-32	87
775	Activated carbon xerogels with a cellular morphology derived from hydrothermally carbonized glucose-graphene oxide hybrids and their performance towards CO2 and dye adsorption. <b>2015</b> , 81, 137-147	59
774	Design and synthesis of hierarchically porous MnO2/carbon hybrids for high performance electrochemical capacitors. <b>2015</b> , 438, 61-67	25
773	Exceptional Adsorption of Phenol and p-Nitrophenol from Water on Carbon Materials Prepared via Hydrothermal Carbonization of Corncob Residues. <b>2016</b> , 11,	12
772	Production of biofuels via hydrothermal conversion. <b>2016</b> , 509-547	7
771	Effects of hydrothermal carbonization conditions on the textural and electrical properties of activated carbons. <b>2016</b> , 107, 619-621	8
770	Seeded Synthesis of Monodisperse Core-Shell and Hollow Carbon Spheres. <b>2016</b> , 12, 4357-62	23
769	Electron transport mechanisms in polymer-carbon sphere composites. <b>2016</b> , 120, 014302	5
768	Green biodiesel production from waste cooking oil using an environmentally benign acid catalyst. <b>2016</b> , 52, 367-74	93
767	CO2 Sorption Durability of Zr-Modified Nano-CaO Sorbents with Cage-like Hollow Sphere Structure. <b>2016</b> , 4, 2047-2055	33
766	Spectroscopic tracking of mechanochemical reactivity and modification of a hydrothermal char. <b>2016</b> , 6, 12021-12031	13
765	Nitrogen and sulfur self-doped porous carbon from brussel sprouts as electrode materials for high stable supercapacitors. <b>2016</b> , 6, 57464-57472	47
764	Architectural design of hierarchically mesofhacroporous carbon for microbial fuel cell anodes. <b>2016</b> , 6, 27993-27998	11
763	Facile Synthesis of Uniform-Sized Bismuth Nanoparticles for CT Visualization of Gastrointestinal Tract in Vivo. <b>2016</b> , 8, 12720-6	79
762	Effect of nanostructure on the supercapacitor performance of activated carbon xerogels obtained from hydrothermally carbonized glucose-graphene oxide hybrids. <b>2016</b> , 105, 474-483	57
761	Evaluation of the structure and fuel properties of lignocelluloses through carbon dioxide torrefaction. <b>2016</b> , 119, 463-472	42
760	An ultra-high-performance anode material for supercapacitors: self-assembled long Co3O4 hollow tube network with multiple heteroatom (C-, N- and S-) doping. <b>2016</b> , 4, 9097-9105	49
759	Functionalization of Tungsten Disulfide Nanotubes with a Conformal Humin-Like Shell. <b>2016</b> , 3, 1600307	4

Catalytic activation and application of micro-spherical carbon derived from hydrothermal 758 carbonization of lignocellulosic biomass: statistical analysis using BoxBehnken design. 2016, 6, 102680-102694<sup>24</sup> Salting Effect in the Hydrothermal Carbonisation of Bioresources. 2016, 1, 4161-4166 757 Comparison of maize and wheat starch chain reactivity in relation to uniform versus surface 756 3 oriented starch granule derivatization patterns. **2016**, 61, 858-867 Thermal & chemical analyses of hydrothermally derived carbon materials from corn starch. 2016, 20 755 153, 43-49 Hollow Nano- and Microstructures as Catalysts. 2016, 116, 14056-14119 754 503 Sustainable production of activated carbon spheres from ethyl cellulose. 2016, 6, 95656-95662 12 753 Spherical CoreBhell Titanium (Oxy)nitride@Nitrided Carbon Composites as Catalysts for the 9 752 Oxygen Reduction Reaction: Synthesis and Electrocatalytic Performance. 2016, 3, 1641-1654 Facile fabrication of carbon spheres/n-Si junction diodes based on sucrose. 2016, 27, 13044-13051 751 Cost effective biochar gels with super capabilities for heavy metal removal. 2016, 6, 75430-75439 750 5 Spherical carbon with SO3H groups as an efficient solid acid catalyst for 2,4,5-triphenyl[midazole 16 749 synthesis. 2016, 1, 301-308 Preparation and characterization of agricultural waste biomass based hydrochars. Fuel, 2016, 183, 366-372 748 55 Scalable preparation of monodisperse micron-sized carbon microspheres and their application in 747 anion-exchange chromatography. 2016, 6, 88633-88639 One-Step Hydrothermal Synthesis of Carbonaceous Spheres from Glucose with an Aluminum 746 27 Chloride Catalyst and Its Adsorption Characteristic for Uranium(VI). 2016, 55, 9648-9656 On the structural and reactivity differences between biomass- and coal-derived chars. 2016, 109, 253-263 22 745 Hydrothermal synthesis of carbonaceous spheres starting from different starches. 2016, 124, 79-81 744 3 Electrochemical performance of carbon-encapsulated Fe3O4 nanoparticles in lithium-ion batteries: 743 37 morphology and particle size effects. 2016, 216, 475-483 Hydrothermal carbonization of tobacco stalk for fuel application. 2016, 220, 305-311 742 127 Hydrothermal carbon nanosphere-based agglomerated anion exchanger for ion chromatography. 10 **2016**, 1468, 73-78

740	Phase and Morphology Evolution of Manganese Oxides during Thermal Treatment. <b>2016</b> , 697, 322-326	1
739	Biochar properties: Transport, fate, and impact. <b>2016</b> , 46, 1183-1296	75
738	The roles of formic acid and levulinic acid on the formation and growth of carbonaceous spheres by hydrothermal carbonization. <b>2016</b> , 6, 102428-102435	17
737	Enhanced adsorption of orthophosphate and copper onto hydrochar derived from sewage sludge by KOH activation. <b>2016</b> , 6, 101827-101834	24
736	Activated carbon derived from hydrothermal treatment of sucrose and its air filtration application. <b>2016</b> , 6, 109950-109959	11
735	Amidoxime-functionalized hydrothermal carbon materials for uranium removal from aqueous solution. <b>2016</b> , 6, 102462-102471	26
734	Morphology evolution, formation mechanism and adsorption properties of hydrochars prepared by hydrothermal carbonization of corn stalk. <b>2016</b> , 6, 107829-107835	33
733	Synthesis of Hard Carbon/Iron Microspheres and Their Aqueous-Based Tribological Performance Under Magnetic Field. <b>2016</b> , 64, 1	7
732	Catalytic Hydrotreatment of Humins in Mixtures of Formic Acid/2-Propanol with Supported Ruthenium Catalysts. <b>2016</b> , 9, 951-61	33
724	Pumpkin-Derived Porous Carbon for Supercapacitors with High Performance. <b>2016</b> , 11, 1828-36	
731	r dilipalit Derived Forous Carbon for Supercapacitors with high Ferrormance. 2010, 11, 1020-30	40
730	Hydrothermal treatment of palm oil empty fruit bunches: an investigation of the solid fuel and liquid organic fertilizer applications. <b>2016</b> , 7, 627-636	22
	Hydrothermal treatment of palm oil empty fruit bunches: an investigation of the solid fuel and	
730	Hydrothermal treatment of palm oil empty fruit bunches: an investigation of the solid fuel and liquid organic fertilizer applications. <b>2016</b> , 7, 627-636  Chemical, structural and energy properties of hydrochars from microwave-assisted hydrothermal	22
73° 729	Hydrothermal treatment of palm oil empty fruit bunches: an investigation of the solid fuel and liquid organic fertilizer applications. <b>2016</b> , 7, 627-636  Chemical, structural and energy properties of hydrochars from microwave-assisted hydrothermal carbonization of glucose. <b>2016</b> , 7, 449-456	22 36
73° 729 728	Hydrothermal treatment of palm oil empty fruit bunches: an investigation of the solid fuel and liquid organic fertilizer applications. <b>2016</b> , 7, 627-636  Chemical, structural and energy properties of hydrochars from microwave-assisted hydrothermal carbonization of glucose. <b>2016</b> , 7, 449-456  Hydrothermal carbonization of pulp mill streams. <b>2016</b> , 212, 236-244	22 36 19
73° 729 728 727	Hydrothermal treatment of palm oil empty fruit bunches: an investigation of the solid fuel and liquid organic fertilizer applications. 2016, 7, 627-636  Chemical, structural and energy properties of hydrochars from microwave-assisted hydrothermal carbonization of glucose. 2016, 7, 449-456  Hydrothermal carbonization of pulp mill streams. 2016, 212, 236-244  The modification of carbon materials with carbon disulfide for the removal of Pb2+. 2016, 301, 1-9  Assessment of hydrogen storage in activated carbons produced from hydrothermally treated	22 36 19
730 729 728 727 726	Hydrothermal treatment of palm oil empty fruit bunches: an investigation of the solid fuel and liquid organic fertilizer applications. 2016, 7, 627-636  Chemical, structural and energy properties of hydrochars from microwave-assisted hydrothermal carbonization of glucose. 2016, 7, 449-456  Hydrothermal carbonization of pulp mill streams. 2016, 212, 236-244  The modification of carbon materials with carbon disulfide for the removal of Pb2+. 2016, 301, 1-9  Assessment of hydrogen storage in activated carbons produced from hydrothermally treated organic materials. 2016, 41, 12146-12156  Pt decorated Artocarpus heterophyllus seed derived carbon as an anode catalyst for DMFC	22 36 19 14 42

722	Synthesis and magnetic properties of highly dispersed tantalum carbide nanoparticles decorated on carbon spheres. <b>2016</b> , 18, 1427-1438		3
721	Synthesis, characterization and sensing properties of mesoporous C/SnO2 nanocomposite. <b>2016</b> , 228, 595-604		39
720	Effect of core/shell structured TiO2@C nanowire support on the Pt catalytic performance for methanol electrooxidation. <b>2016</b> , 6, 3767-3775		14
719	Molecular structures driving pseudo-capacitance in hydrothermal nanostructured carbons. <b>2016</b> , 6, 129	64-129	97 <u>6</u>
718	Large-scale synthesis of soluble graphitic hollow carbon nanorods with tunable photoluminescence for the selective fluorescent detection of DNA. <b>2016</b> , 40, 1571-1579		45
717	Eco-friendly fabrication of sponge-like magnetically carbonaceous fiber aerogel for high-efficiency oilwater separation. <b>2016</b> , 6, 30301-30310		27
716	ECyclodextrin anchoring onto pericarpium granati-derived magnetic mesoporous carbon for selective capture of lopid in human serum and pharmaceutical wastewater samples. <b>2016</b> , 62, 605-13		17
715	Mechanism for the formation and growth of carbonaceous spheres from sucrose by hydrothermal carbonization. <b>2016</b> , 6, 20814-20823		46
714	Synthesis and Characterization of Sulfonated Carbon-Based Graphene Oxide Monolith by Solvothermal Carbonization for Esterification and Unsymmetrical Ether Formation. <b>2016</b> , 4, 1963-1973		71
713	Hierarchically porous Fe3O4/C nanocomposite microspheres via a CO2 bubble-templated hydrothermal approach as high-rate and high-capacity anode materials for lithium-ion batteries. <b>2016</b> , 4, 5898-5908		65
712	Cellulose-derived carbon spheres produced under supercritical ethanol conditions. <b>2016</b> , 18, 331-338		11
711	Carbon spheres anchored Co3O4 nanoclusters as an efficient catalyst for dye degradation. <b>2016</b> , 513, 106-115		23
710	Unprecedented performance of N-doped activated hydrothermal carbon towards C2H6/CH4, CO2/CH4, and CO2/H2 separation. <b>2016</b> , 4, 2263-2276		50
709	Mechanism study of degradative solvent extraction of biomass. <i>Fuel</i> , <b>2016</b> , 165, 10-18	7.1	27
708	Molecular structure, morphology and growth mechanisms and rates of 5-hydroxymethyl furfural (HMF) derived humins. <b>2016</b> , 18, 1983-1993		201
707	Hydrothermal conversion of biomass waste to activated carbon with high porosity: A review. <i>Chemical Engineering Journal</i> , <b>2016</b> , 283, 789-805	14.7	614
706	Tunable ZnO spheres with high anti-biofilm and antibacterial activity via a simple green hydrothermal route. <b>2016</b> , 462, 64-74		38
705	Low-cost, green synthesis of highly porous carbons derived from lotus root shell as superior performance electrode materials in supercapacitor. <b>2016</b> , 25, 26-34		40

## (2017-2016)

704	Soft templating synthesis of nitrogen-doped porous hydrothermal carbons and their applications in carbon dioxide and hydrogen adsorption. <b>2016</b> , 220, 129-135	36
703	Quantitative multiphase model for hydrothermal liquefaction of algal biomass. <b>2017</b> , 19, 1163-1174	67
702	Synchrotron based NEXAFS study on nitrogen doped hydrothermal carbon: Insights into surface functionalities and formation mechanisms. <b>2017</b> , 114, 566-578	47
701	Structural analysis and capacitive properties of carbon spheres prepared by hydrothermal carbonization. <b>2017</b> , 28, 884-889	31
700	One-Pot Hydrothermal Synthesis of Carbon Dots with Efficient Up- and Down-Converted Photoluminescence for the Sensitive Detection of Morin in a Dual-Readout Assay. <b>2017</b> , 33, 1043-1050	110
699	Asymmetric Flasklike Hollow Carbonaceous Nanoparticles Fabricated by the Synergistic Interaction between Soft Template and Biomass. <b>2017</b> , 139, 2657-2663	98
698	Preparation and CO2 adsorption properties of porous carbon from camphor leaves by hydrothermal carbonization and sequential potassium hydroxide activation. <b>2017</b> , 7, 4152-4160	26
697	Surface passivation of carbon dots with ethylene glycol and their high-sensitivity to Fe3+. <b>2017</b> , 7, 2810-2816	50
696	Valorization of Furfural Residue by Hydrothermal Carbonization: Processing Optimization, Chemical and Structural Characterization. <b>2017</b> , 2, 583-590	5
695	Exploratory catalyst screening studies on the liquefaction of model humins from C6 sugars. <b>2017</b> , 7, 5136-514	714
695	Finding of coal organic microspheres during hydrothermal treatment of brown coal. <i>Fuel</i> , <b>2017</b> , 7, 5136-514  7.1	<b>7</b> 14 9
	Finding of coal organic microspheres during hydrothermal treatment of brown coal. <i>Fuel</i> , <b>2017</b> ,	
694	Finding of coal organic microspheres during hydrothermal treatment of brown coal. <i>Fuel</i> , <b>2017</b> , 195, 143-150  Controlled synthesis of core-shell, yolk-shell and hollow spheres C@La2Zr2O7 via the combination	9
694 693	Finding of coal organic microspheres during hydrothermal treatment of brown coal. Fuel, 2017, 195, 143-150  Controlled synthesis of core-shell, yolk-shell and hollow spheres C@La2Zr2O7 via the combination of hard templating and co-precipitation method. 2017, 43, 5941-5948  Biochars with excellent Pb(II) adsorption property produced from fresh and dehydrated banana	9
694 693 692	Finding of coal organic microspheres during hydrothermal treatment of brown coal. Fuel, 2017, 195, 143-150  Controlled synthesis of core-shell, yolk-shell and hollow spheres C@La2Zr2O7 via the combination of hard templating and co-precipitation method. 2017, 43, 5941-5948  Biochars with excellent Pb(II) adsorption property produced from fresh and dehydrated banana peels via hydrothermal carbonization. 2017, 232, 204-210  Flower-like hierarchical porous nitrogen-doped carbon spheres from a facile one-step carbonization	9 4 191
694 693 692	Finding of coal organic microspheres during hydrothermal treatment of brown coal. <i>Fuel</i> , <b>2017</b> , 195, 143-150  Controlled synthesis of core-shell, yolk-shell and hollow spheres C@La2Zr2O7 via the combination of hard templating and co-precipitation method. <b>2017</b> , 43, 5941-5948  Biochars with excellent Pb(II) adsorption property produced from fresh and dehydrated banana peels via hydrothermal carbonization. <b>2017</b> , 232, 204-210  Flower-like hierarchical porous nitrogen-doped carbon spheres from a facile one-step carbonization method for supercapacitors. <b>2017</b> , 28, 9301-9308  Sugar-Terminated Nanoparticle Chaperones Are 10-10 Times Better Than Molecular Sugars in	9 4 191 8
694 693 692 691	Finding of coal organic microspheres during hydrothermal treatment of brown coal. Fuel, 2017, 195, 143-150  Controlled synthesis of core-shell, yolk-shell and hollow spheres C@La2Zr2O7 via the combination of hard templating and co-precipitation method. 2017, 43, 5941-5948  Biochars with excellent Pb(II) adsorption property produced from fresh and dehydrated banana peels via hydrothermal carbonization. 2017, 232, 204-210  Flower-like hierarchical porous nitrogen-doped carbon spheres from a facile one-step carbonization method for supercapacitors. 2017, 28, 9301-9308  Sugar-Terminated Nanoparticle Chaperones Are 10-10 Times Better Than Molecular Sugars in Inhibiting Protein Aggregation and Reducing Amyloidogenic Cytotoxicity. 2017, 9, 10554-10566  Preparation of highly porous carbon through activation of NH4Cl induced hydrothermal	9 4 191 8

686	Simultaneous Activation Exfoliation Reassembly to Form Layered Carbon with Hierarchical Pores. <b>2017</b> , 9, 2488-2495		5
685	Slow Pyrolysis Magnetization of Hydrochar for Effective and Highly Stable Removal of Tetracycline from Aqueous Solution. <b>2017</b> , 56, 3059-3066		31
684	Preparation and Electrochemical Characterization of Carbonaceous Thin Layer. <b>2017</b> , 29, 1062-1068		1
683	Hydrochar production from watermelon peel by hydrothermal carbonization. <b>2017</b> , 241, 236-243		102
682	Pt/ZnO@C Nanocable with Dual-Enhanced Photocatalytic Performance and Superior Photostability. <b>2017</b> , 33, 4452-4460		29
681	Liquefaction of wood and its model components. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2017</b> , 125, 136-143	6	22
68o	Stabilizing the MXenes by Carbon Nanoplating for Developing Hierarchical Nanohybrids with Efficient Lithium Storage and Hydrogen Evolution Capability. <b>2017</b> , 29, 1607017		380
679	Optimization and characterization of hydrochar produced from microwave hydrothermal carbonization of fish waste. <b>2017</b> , 65, 159-168		66
678	Activated carbon derived from spherical hydrochar functionalized with triethylenetetramine: synthesis, characterizations, and adsorption application. <b>2017</b> , 6,		15
677	Biomass-derived flexible porous carbon materials and their applications in supercapacitor and gas adsorption. <b>2017</b> , 129, 164-172		83
676	Hydrothermal Carbon-Mediated Fenton-Like Reaction Mechanism in the Degradation of Alachlor: Direct Electron Transfer from Hydrothermal Carbon to Fe(III). <b>2017</b> , 9, 17115-17124		103
675	Porous 3D carbon decorated Fe3O4 nanocomposite electrode for highly symmetrical supercapacitor performance. <b>2017</b> , 7, 23030-23040		31
674	Insight into adsorption mechanism of cationic dye onto agricultural residues-derived hydrochars: Negligible role of ⊞nteraction. <b>2017</b> , 34, 1708-1720		56
673	A high surface area mesoporous EAl2O3 with tailoring texture by glucose template for ethanol dehydration to ethylene. <b>2017</b> , 241, 89-97		25
672	Functionalized Natural Carbon-Supported Nanoparticles as Excellent Catalysts for Hydrocarbon Production. <b>2017</b> , 12, 366-371		7
671	Green Polyelectrolyte-Functionalization of Carbonaceous Nanospheres and Its Application in Ion Chromatography. <b>2017</b> , 5, 112-118		4
670	A novel red mud@sucrose based carbon composite: Preparation, characterization and its adsorption performance toward methylene blue in aqueous solution. <i>Journal of Environmental Chemical Engineering</i> , <b>2017</b> , 5, 2639-2647	6.8	22
669	Photoluminescence of carbon dots and their applications in Hela cell imaging and Fe3+ ion detection. <b>2017</b> , 52, 9979-9989		20

#### (2017-2017)

668	Effects of additives on sucrose-derived activated carbon microspheres synthesized by hydrothermal carbonization. <b>2017</b> , 52, 10787-10799	27
667	Comparative evaluation of conventional and microwave hydrothermal carbonization of human biowaste for value recovery. <b>2017</b> , 75, 2852-2863	19
666	Electrophoretically deposited carbon micro and nanospheres thin films as superhydrophobic coatings. <b>2017</b> , 319, 318-325	8
665	Carrot-derived carbon dots modified with polyethyleneimine and nile blue for ratiometric two-photon fluorescence turn-on sensing of sulfide anion in biological fluids. <b>2017</b> , 169, 141-148	60
664	Characterization and Production of Solid Biofuel from Sugarcane Bagasse by Hydrothermal Carbonization. <b>2017</b> , 8, 1941-1951	13
663	Environment friendly hydrothermal synthesis of carbon@03O4 nanorods composite as an efficient catalyst for oxygen evolution reaction. <b>2017</b> , 26, 695-702	22
662	Hydrothermal carbonization of forestry residues: influence of reaction temperature on holocellulose-derived hydrochar properties. <b>2017</b> , 52, 1736-1746	34
661	Dual-Core Fe2O3@Carbon Structure Derived from Hydrothermal Carbonization of Chitosan as a Highly Efficient Material for Selective Adsorption. <b>2017</b> , 5, 1457-1467	50
660	Biochar-based Bradyrhizobium inoculum improves growth of lupin (Lupinus angustifolius L.) under drought stress. <b>2017</b> , 78, 38-42	49
659	Alkali-assisted hydrothermal route to control submicron-sized nanoporous carbon spheres with uniform distribution. <b>2017</b> , 515, 1-11	28
658	One-step Preparation of Carbon-based Solid Acid Catalyst from Water Hyacinth Leaves for Esterification of Oleic Acid and Dehydration of Xylose. <b>2017</b> , 12, 3178-3186	23
657	Morphological and chemical structure of hydrothermally carbonized saccharides. <b>2017</b> , 18, 1602-1608	5
656	Bio-butanol sorption performance on novel porous-carbon adsorbents from corncob prepared via hydrothermal carbonization and post-pyrolysis method. <b>2017</b> , 7, 11753	12
655	Microwave-assisted hydrothermal synthesis of carbon materials with tunable microstructure. <b>2017</b> , 32, 1032-1037	1
654	Preparation of Mesoporous Carbon from Sodium Lignosulfonate by Hydrothermal and Template Method and Its Adsorption of Uranium(VI). <b>2017</b> , 56, 12745-12754	18
653	Demethanation Trend of Hydrochar Induced by Organic Solvent Washing and Its Influence on Hydrochar Activation. <b>2017</b> , 51, 10756-10764	29
652	Green preparation of a novel red mud@carbon composite and its application for adsorption of 2,4-dichlorophenoxyacetic acid from aqueous solution. <b>2017</b> , 24, 23057-23068	17
651	Structural analysis of hydrothermal char and its models by density functional theory simulation of vibrational spectroscopy. <b>2017</b> , 125, 614-629	18

650	Nano-particulate Structures with Glucose-Derived Char and Compacted Fumed Silica in Gaseous and Aqueous Media. <b>2017</b> , 729-742	4
649	Formation of an external char layer during subcritical water hydrolysis of biomass. <b>2017</b> , 1, 1950-1959	10
648	Hydrothermal Synthesis of Monodisperse Hard Carbon Spheres and Their Water-Based Lubrication. <b>2017</b> , 65, 1	21
647	Easy Preparation of Tannin-Based Ag Catalysts for Ethylene Epoxidation. <b>2017</b> , 2, 8509-8516	3
646	Nitrogen activation of carbon-encapsulated zero-valent iron nanoparticles and influence of the activation temperature on heavy metals removal. <b>2017</b> , 64, 012070	3
645	Sugars and char formation on subcritical water hydrolysis of sugarcane straw. <b>2017</b> , 243, 1069-1077	38
644	Effect of phosphoric acid on the surface properties and Pb(II) adsorption mechanisms of hydrochars prepared from fresh banana peels. <b>2017</b> , 165, 221-230	71
643	Parametric study of the hydrothermal carbonization of cellulose and effect of acidic conditions. <b>2017</b> , 123, 421-432	62
642	Predicting the suitability of aqueous solutions of deep eutectic solvents for preparation of co-continuous porous carbons via spinodal decomposition processes. <b>2017</b> , 123, 536-547	27
641	Multi-dimensional micro-/nano-reactor spheres for sustainable water treatment. <b>2017</b> , 7, 5550-5561	5
640	In-depth characterization of valuable char obtained from hydrothermal conversion of hazelnut shells to levulinic acid. <b>2017</b> , 244, 880-888	31
639	One-pot synthesis of a novel magnetic carbon based solid acid for alkylation. <b>2017</b> , 58, 414-421	2
638	Hydrochar as protein support: preservation of biomolecule properties with non-covalent immobilization. <b>2017</b> , 52, 13378-13389	6
637	Carbon quantum dot tailored calcium alginate hydrogel for pH responsive controlled delivery of vancomycin. <b>2017</b> , 109, 359-371	51
636	Biomass-Derived Carbon Nanospheres with Turbostratic Structure as Metal-Free Catalysts for Selective Hydrogenation of o-Chloronitrobenzene. <b>2017</b> , 5, 7481-7485	30
635	Preparation of mono-dispersed carbonaceous spheres via a hydrothermal process. <b>2017</b> , 28, 2648-2657	20
634	A novel 3D carbon linked by uniform size nanospheres. <b>2017</b> , 91, 1513-1516	О
633	Preparation of chemically oxidized porous carbon and its adsorption of uranium(VI) from aqueous solution. <b>2017</b> , 314, 1853-1864	5

632	Oxygen-rich microporous carbons with exceptional hydrogen storage capacity. <b>2017</b> , 8, 1545	117
631	From harmful Microcystis blooms to multi-functional core-double-shell microsphere bio-hydrochar materials. <b>2017</b> , 7, 15477	11
630	Enhanced electrochemical glucose-sensing properties of NiO nanospheres modified with indium. <b>2017</b> , 52, 11547-11553	4
629	Direct synthesis of ordered mesoporous hydrothermal carbon materials via a modified soft-templating method. <b>2017</b> , 253, 215-222	21
628	Preparation of porous carbon sphere from waste sugar solution for electric double-layer capacitor. <b>2017</b> , 361, 249-258	61
627	Hydrothermal Carbonisation: An Eco-Friendly Method for the Production of Carbon Adsorbents. <b>2017</b> , 77-108	1
626	Hydrothermal carbonization for the preparation of hydrochars from glucose, cellulose, chitin, chitosan and wood chips via low-temperature and their characterization. <b>2017</b> , 246, 82-87	96
625	Hydrothermal Carbonization of Glucose, Fructose, and Xyloseldentification of Organic Products with Medium Molecular Masses. <b>2017</b> , 5, 6420-6428	38
624	Hydrothermal carbonaceous sphere based stationary phase for anion exchange chromatography. <b>2017</b> , 163, 24-30	10
623	Enhanced photocatalytic activity of Ag 3 PO 4 photocatalyst via glucose-based carbonsphere modification. <i>Chemical Engineering Journal</i> , <b>2017</b> , 309, 222-229	29
622	Hydrothermal synthesis of carbon microsphere from glucose at low temperature and its adsorption property of uranium(VI). <b>2017</b> , 311, 695-706	22
621	Environmentally Benign Bioderived Carbon Microspheres-Supported Molybdena Nanoparticles as Catalyst for the Epoxidation Reaction. <b>2017</b> , 5, 904-910	15
620	Stable and active monolithic palladium catalyst for catalytic oxidation of methane using nanozeolite silicalite-1 coating on cordierite. <b>2017</b> , 531, 197-202	12
619	Mesoporous Microcapsules through d-Glucose Promoted Hydrothermal Self-Assembly of Colloidal Silica: Reusable Catalytic Containers for Palladium Catalyzed Hydrogenation Reactions. <b>2017</b> , 5, 667-674	17
618	Ratiometric, visual, dual-signal fluorescent sensing and imaging of pH/copper ions in real samples based on carbon dots-fluorescein isothiocyanate composites. <b>2017</b> , 162, 65-71	58
617	Size controllable synthesis of hard carbon spheres from aqueous D-glucose. <b>2017</b> , 11, 213	1
616	Exploitation of Arundo donax L. Hydrolysis Residue for the Green Synthesis of Flexible	18
	Polyurethane Foams. <b>2017</b> , 12,	10

614	Polymers in Carbon Dots: A Review. <b>2017</b> , 9,		78
613	Calcium-Mediated Control of Polydopamine Film Oxidation and Iron Chelation. <b>2016</b> , 18,		22
612	Diamond-Like Carbon Nanofoam from Low-Temperature Hydrothermal Carbonization of a Sucrose/Naphthalene Precursor Solution. <b>2017</b> , 3, 23		5
611	Efficient Low Temperature Hydrothermal Carbonization of Chinese Reed for Biochar with High Energy Density. <b>2017</b> , 10, 2094		11
610	The Effect of Calcium-Based Salt on Hydrothermal Carbonization of Corncob. 2017, 751, 477-482		0
609	HYDROTHERMAL CARBONIZATION OF BIOMASS WASTE BY USING A STIRRED REACTOR: AN INITIAL EXPERIMENTAL RESULTS. <b>2017</b> , 16, 212		3
608	Removal of Escherichia coli by Intermittent Operation of Saturated Sand Columns Supplemented with Hydrochar Derived from Sewage Sludge. <b>2017</b> , 7, 839		10
607	Conventional Hydrothermal Carbonization of Shrimp Waste. <b>2018</b> , 32, 3532-3542		10
606	Trifunctional [email´protected] Catalyst for Enhanced Stable Simultaneously Catalytic Removal of Formaldehyde and Ozone. <b>2018</b> , 8, 3164-3180		52
605	A Novel Nitrogen Enriched Hydrochar Adsorbents Derived from Salix Biomass for Cr (VI) Adsorption. <b>2018</b> , 8, 4040		34
604	Silicalarbon Nanocomposite Acid Catalyst with Large Mesopore Interconnectivity by Vapor-Phase Assisted Hydrothermal Treatment. <b>2018</b> , 6, 7859-7870		9
603	Preparation of metal-free electrocatalysts from cassava residues for the oxygen reduction reaction: A sulfur functionalization approach. <b>2018</b> , 43, 3172-3179		15
602	A review of the hydrothermal carbonization of biomass waste for hydrochar formation: Process conditions, fundamentals, and physicochemical properties. <b>2018</b> , 90, 223-247		467
601	Ultraviolet Photoluminescence of Carbon Nanospheres and its Surface Plasmon-Induced Enhancement. <b>2018</b> , 14, e1704239		9
600	Facile synthesis of coreBhell Ag@C nanospheres with improved tribological properties for water-based additives. <b>2018</b> , 42, 8773-8782		22
599	Hydrothermal Carbonization of Microalgae (Chlorococcum sp.) for Porous Carbons With High Cr(VI) Adsorption Performance. <b>2018</b> , 186, 414-424		19
598	Heavy metal sequestration with a boronic acid-functionalized carbon-based adsorbent. <i>Journal of Environmental Chemical Engineering</i> , <b>2018</b> , 6, 1147-1154	.8	12
597	Fluorescent carbon dots as nanoprobe for determination of lidocaine hydrochloride. <b>2018</b> , 262, 928-937		59

#### (2018-2018)

596	Improved capacity of redox-active functional carbon cathodes by dimension reduction for hybrid supercapacitors. <b>2018</b> , 6, 3367-3375	25
595	Adsorption of Methyl Blue onto uniform carbonaceous spheres prepared via an anionic polyacrylamide-assisted hydrothermal route. <b>2018</b> , 208, 8-18	8
594	Vapor-phase assisted hydrothermal carbon from sucrose and its application in acid catalysis. <b>2018</b> , 20, 1345-1353	25
593	Hexamethylenetetramine: an effective and universal nitrogen-doping reagent to enhance the photoluminescence of carbon nanodots. <b>2018</b> , 42, 3519-3525	4
592	Self-assembled porous Fe3O4/C nanoclusters with superior rate capability for advanced lithium-ion batteries. <b>2018</b> , 29, 6491-6500	5
591	Electrochemical characterization of FeMnO3 microspheres as potential material for energy storage applications. <b>2018</b> , 5, 015504	11
590	In-situ loading nano silver on magnetic carbon using Tollen's reagent. <b>2018</b> , 207, 289-293	1
589	Chemically Exfoliating Biomass into a Graphene-like Porous Active Carbon with Rational Pore Structure, Good Conductivity, and Large Surface Area for High-Performance Supercapacitors. <b>2018</b> , 8, 1702545	251
588	A novel pyro-hydrochar via sequential carbonization of biomass waste: Preparation, characterization and adsorption capacity. <b>2018</b> , 176, 187-195	47
587	Polyol derived sulfonated solvothermal carbon for efficient dye removal from aqueous solutions. <b>2018</b> , 249, 892-903	11
586	Porosity enhancement of spherical activated carbon: Influence and optimization of hydrothermal synthesis conditions using response surface methodology. <i>Journal of Environmental Chemical</i> 6.8 <i>Engineering</i> , <b>2018</b> , 6, 991-999	29
585	Revealing the Dynamic Formation Process and Mechanism of Hollow Carbon Spheres: From Bowl to Sphere. <b>2018</b> , 6, 2797-2805	28
584	Hydrophilic Multitemplate Molecularly Imprinted Biopolymers Based on a Green Synthesis Strategy for Determination of B-Family Vitamins. <b>2018</b> , 10, 4140-4150	245
583	Structural analysis of humins formed in the Brfisted acid catalyzed dehydration of fructose. <b>2018</b> , 20, 997-1006	85
582	Optimization of hydrothermal conversion of bamboo (Phyllostachys aureosulcata) to levulinic acid via response surface methodology. <b>2018</b> , 219, 95-102	16
581	Green Synthesis of Thin Shell Carbon-Encapsulated Iron Nanoparticles via Hydrothermal Carbonization. <b>2018</b> , 6, 7995-8002	22
580	Quantifying the sensitivity of feedstock properties and process conditions on hydrochar yield, carbon content, and energy content. <b>2018</b> , 262, 284-293	19
579	Structure and solvents effects on the optical properties of sugar-derived carbon nanodots. <b>2018</b> , 8, 6559	81

578	Symbiotic relationship between hydrothermal carbonization technology and anaerobic digestion for food waste in China. <b>2018</b> , 260, 404-412		42
577	Synthesis and characterization of Ag@Carbon core-shell spheres as a novel catalyst for room temperature N-arylation reaction. <b>2018</b> , 361, 339-346		8
576	Characteristics of hydrochar and liquid fraction from hydrothermal carbonization of cassava rhizome. <b>2018</b> , 91, 184-193		43
575	Catalytic insights into the production of biomass-derived side products methyl levulinate, furfural and humins. <b>2018</b> , 302, 2-15		100
574	Efficient conversion of cellulose into 5-hydroxymethylfurfural over niobia/carbon composites. <i>Chemical Engineering Journal</i> , <b>2018</b> , 332, 528-536	14.7	63
573	A review on the current status of various hydrothermal technologies on biomass feedstock. <b>2018</b> , 81, 1742-1770		255
572	Conversion of sweet potato waste to solid fuel via hydrothermal carbonization. 2018, 249, 900-907		101
571	Synthesis of Luminescent N-Doped Carbon Dots by Hydrothermal Treatment. <b>2018</b> , 255, 1700222		10
570	Influence of temperature on nitrogen fate during hydrothermal carbonization of food waste. <b>2018</b> , 247, 182-189		93
569	New strategy to prepare ultramicroporous carbon by ionic activation for superior CO2 capture. <i>Chemical Engineering Journal</i> , <b>2018</b> , 337, 290-299	14.7	37
569 568		14.7	37
	Chemical Engineering Journal, <b>2018</b> , 337, 290-299	14.7	
568	Chemical Engineering Journal, 2018, 337, 290-299  Production of furan based biofuel with an environmental benign carbon catalyst. 2018, 37, 1455-1461  Nitrogen-rich sandwich-like carbon nanosheets as anodes with superior lithium storage properties.	14.7	2
568	Chemical Engineering Journal, 2018, 337, 290-299  Production of furan based biofuel with an environmental benign carbon catalyst. 2018, 37, 1455-1461  Nitrogen-rich sandwich-like carbon nanosheets as anodes with superior lithium storage properties. 2018, 5, 225-232  Investigation of the textural and adsorption properties of activated carbon from HTC and pyrolysis	14.7	2 14
<ul><li>568</li><li>567</li><li>566</li></ul>	Production of furan based biofuel with an environmental benign carbon catalyst. <b>2018</b> , 37, 1455-1461  Nitrogen-rich sandwich-like carbon nanosheets as anodes with superior lithium storage properties. <b>2018</b> , 5, 225-232  Investigation of the textural and adsorption properties of activated carbon from HTC and pyrolysis carbonizates. <b>2018</b> , 8, 317-328  Preparation, characterization and environmental/electrochemical energy storage testing of	14.7	2 14 15
<ul><li>568</li><li>567</li><li>566</li><li>565</li></ul>	Production of furan based biofuel with an environmental benign carbon catalyst. 2018, 37, 1455-1461  Nitrogen-rich sandwich-like carbon nanosheets as anodes with superior lithium storage properties. 2018, 5, 225-232  Investigation of the textural and adsorption properties of activated carbon from HTC and pyrolysis carbonizates. 2018, 8, 317-328  Preparation, characterization and environmental/electrochemical energy storage testing of low-cost biochar from natural chitin obtained via pyrolysis at mild conditions. 2018, 427, 883-893  Three-dimensional hierarchical and interconnected honeycomb-like porous carbon derived from	14.7	2 14 15 35
<ul><li>568</li><li>567</li><li>566</li><li>565</li><li>564</li></ul>	Production of furan based biofuel with an environmental benign carbon catalyst. 2018, 37, 1455-1461  Nitrogen-rich sandwich-like carbon nanosheets as anodes with superior lithium storage properties. 2018, 5, 225-232  Investigation of the textural and adsorption properties of activated carbon from HTC and pyrolysis carbonizates. 2018, 8, 317-328  Preparation, characterization and environmental/electrochemical energy storage testing of low-cost biochar from natural chitin obtained via pyrolysis at mild conditions. 2018, 427, 883-893  Three-dimensional hierarchical and interconnected honeycomb-like porous carbon derived from pomelo peel for high performance supercapacitors. 2018, 257, 64-71  Saccharide-derived microporous spherical biochar prepared from hydrothermal carbonization and different pyrolysis temperatures: synthesis, characterization, and application in water treatment.	14.7	<ul><li>14</li><li>15</li><li>35</li><li>47</li></ul>

560	Hemostatic effect of novel carbon dots derived from Carbonisata 2018, 8, 37707-37714	10
559	Hydrolysis and carbonization mechanism of cotton fibers in subcritical water. <b>2018</b> , 33, 245-251	11
558	Nanoporous Carbon Synthesis: An Old Story with Exciting New Chapters. 2018,	10
557	Catalytic decomposition of N 2 O over Mg-Co composite oxides hydrothermally prepared by using carbon sphere as template. <b>2018</b> , 46, 569-577	5
556	Water-Based Lubrication of Hard Carbon Microspheres as Lubricating Additives. 2018, 66, 1	4
555	Two-step carbon modification of NaTi2(PO4)3 with improved sodium storage performance for Na-ion batteries. <b>2018</b> , 25, 2320-2331	15
554	Hydrothermal Carbonization of Fruit Wastes: A Promising Technique for Generating Hydrochar. <b>2018</b> , 11, 2022	50
553	Conversion of Sucrose into Lactic Acid over Functionalized Sn-Beta Zeolite Catalyst by 3-Aminopropyltrimethoxysilane. <b>2018</b> , 3, 17430-17438	8
552	Hydrothermal Carbonization of Fructose: Growth Mechanism and Kinetic Model. <b>2018</b> , 6, 13877-13887	50
551	Parameters of hydrothermal gelation of chitin nanofibers determined using a severity factor. <b>2018</b> , 25, 6873-6885	7
550	Alkali-catalyzed hydrothermal treatment of sawdust for production of a potential feedstock for catalytic gasification. <b>2018</b> , 231, 594-599	5
549	Lignosulfonate-Directed Synthesis of Consubstantial YolkBhell Carbon Microspheres with Pollen-Like Surface from Sugar Biomass. <b>2018</b> , 6, 16315-16322	9
548	Effects of Ni(OH)2 Morphology on the Catalytic Performance of Pd/Ni(OH)2/Ni Foam Hybrid Catalyst toward Ethanol Electrooxidation. <b>2018</b> , 1, 6040-6046	18
547	Fabrication of Stabilized Fe?Mn Binary Oxide Nanoparticles: Effective Adsorption of 17Estradiol and Influencing Factors. <b>2018</b> , 15,	6
546	Recent Advances and Perspective on Design and Synthesis of Electrode Materials for Electrochemical Sensing of Heavy Metals. <b>2018</b> , 1, 113-131	21
545	Effects of Process Water Recycling and Particle Sizes on Hydrothermal Carbonization of Biomass. <b>2018</b> , 32, 11576-11586	32
544	Oxygen enriched network-type carbon spheres for multipurpose water purification applications. <b>2018</b> , 12, 160-171	9
543	Functionalized Carboxyl Carbon/NaBOB Composite as Highly Conductive Electrolyte for Sodium Ion Batteries. <b>2018</b> , 3, 9293-9300	3

542	3D printing well organized porous iron-nickel/polyaniline nanocages multiscale supercapacitor. <b>2018</b> , 760, 78-83	22
541	A novel approach to biphasic strategy for intensification of the hydrothermal process to give levulinic acid: Use of an organic non-solvent. <b>2018</b> , 264, 180-189	8
540	Activated magnetic biochar by one-step synthesis: Enhanced adsorption and coadsorption for 17Eestradiol and copper. <b>2018</b> , 639, 1530-1542	92
539	Iron nanoparticles in situ encapsulated in lignin-derived hydrochar as an effective catalyst for phenol removal. <b>2018</b> , 25, 20833-20840	21
538	Sonochemical Fabrication of 3D Chromium(III) Oxide Hollow Spheres Using Fructose as a Sacrificial Template. <b>2018</b> , 67, 20-25	2
537	Sulfonated mesoporous carbon and silica-carbon nanocomposites for biomass conversion. <b>2018</b> , 236, 518-545	65
536	Graphene functionalized bio-carbon xerogel for achieving high-rate and high-stability supercapacitors. <b>2018</b> , 282, 813-821	20
535	Fast preparation of carbon spheres from enzymatic hydrolysis lignin: Effects of hydrothermal carbonization conditions. <b>2018</b> , 8, 9501	31
534	Sulfonated covalent triazine-based frameworks as catalysts for the hydrolysis of cellobiose to glucose <b>2018</b> , 8, 22392-22401	6
533	Auto-Crosslinked Rigid Foams Derived from Biorefinery Byproducts. <b>2018</b> , 11, 2797-2809	31
532	Novel Nanomaterials as Electrocatalysts for Fuel Cells. 2018, 169-204	2
531	Opal promotes hydrothermal carbonization of hydroxypropyl methyl cellulose and formation of carbon nanospheres <b>2018</b> , 8, 20095-20107	6
530	Microporous Humins Synthesized in Concentrated Sulfuric Acid Using 5-Hydroxymethyl Furfural. <b>2018</b> , 3, 8537-8545	9
529	Mesoporous silica-carbon composites fabricated by a universal strategy of hydrothermal carbonization: controllable synthesis and applications <b>2018</b> , 8, 27207-27215	7
528	Deactivation of Sn-Beta during carbohydrate conversion. <b>2018</b> , 564, 113-122	24
527	The preparation of porous carbon spheres with hierarchical pore structure and the application for high-performance supercapacitors. <b>2018</b> , 53, 13987-14000	10
526	Evaluation of the clean characteristics and combustion behavior of hydrochar derived from food waste towards solid biofuel production. <b>2018</b> , 266, 275-283	51
525	Preparation of Monodispersed Carbon Spheres via Hydrothermal Carbonization of Ascorbic Acid and Their Application in Lithium Ion Batteries. <b>2018</b> , 34, 628-634	5

RNA as a Precursor to N-Doped Activated Carbon. 2018, 1, 3815-3825 2 524 A multiscale hydrothermal carbon layer modified carbon fiber for composite fabrication.. 2018, 8, 23339-233476 523 Hydrothermal carbonization of holocellulose into hydrochar: Structural, chemical characteristics, 522 54 and combustion behavior. 2018, 263, 508-516 Sustainable N-containing biochars obtained at low temperatures as sorbing materials for environmental application: Municipal biowaste-derived substances and nanosponges case studies. 521 12 Journal of Analytical and Applied Pyrolysis, 2018, 134, 606-613 Fe-doped SnO2 decorated reduced graphene oxide nanocomposite with enhanced visible light 520 18 photocatalytic activity. 2018, 367, 145-155 Effect of water-washing of wheat straw and hydrothermal temperature on its hydrochar evolution 18 519 and combustion properties. 2018, 269, 96-103 Compared investigation of carbon-decorated Na3V2(PO4)3 with saccharides of different molecular 518 24 weights as cathode of sodium ion batteries. 2018, 286, 231-241 Hierarchically porous nitrogen-doped carbon materials as efficient adsorbents for removal of heavy 517 metal ions. 2018, 119, 320-329 Biomass-waste derived graphene quantum dots and their applications. 2018, 140, 77-99 516 119 Effect of hydrothermal conditions on production of coal organic microspheres. Fuel, 2018, 234, 1301-131/21 515 Advanced oxidation process for coke removal: A systematic study of hydrogen peroxide and 514 9 OH-derived-Fenton radicals of a fouled zeolite. 2018, 562, 215-222 Correlations between hydrochar properties and chemical constitution of orange peel waste during 513 37 hydrothermal carbonization. 2018, 265, 432-436 Shape Engineering of Biomass-Derived Nanoparticles from Hollow Spheres to Bowls through 512 23 Solvent-Induced Buckling. 2018, 11, 2540-2546 A Glucose-Assisted Hydrothermal Reaction for Directly Transforming MetalDrganic Frameworks 511 77 into Hollow Carbonaceous Materials. 2018, 30, 4401-4408 The effects of carbon coating on the electrochemical performance of Zn-Al layer double oxides in 510 9 nickel-zinc secondary cells. 2019, 25, 1223-1233 Selective adsorption of uranium from salt lake-simulated solution by phenolic-functionalized 509 9 hollow sponge-like adsorbent. 2019, 94, 455-467 What is the influence of the nitrogen-containing composition during hydrothermal carbonization of 508 13 biomass? A new perspective from mimic feedstock. 2019, 5, 343-350 Sustainable valorization of food wastes into solid fuel by hydrothermal carbonization. 2019, 292, 121959 507 36

506	Effect of nitric acid oxidation on the surface of hydrochars to sorb methylene blue: An adsorption mechanism comparison. <b>2019</b> , 37, 607-622	27
505	ObtenB de hydrochar a partir de carbonizaB hidrotEmica de cascas do fruto de Magonia pubescens A. St. Hil. Sapindaceae: CaracterizaB e avaliaB em processo de adsorB. <b>2019</b> , 24,	
504	Preparation of mesoporous double-layer carbon microsphere-based solid acid catalyst by hydrothermal method and its application in catalytic transesterification of waste frying oil. <b>2019</b> , 94, 3538-3547	2
503	Density functional theory model for carbon dot surfaces and their interaction with silver nanoparticles. <b>2019</b> , 114, 113640	8
502	Synthesis, characterization and application of carbon nanospheres for dye degradation. 2019,	
501	Effect of pyrolysis condition on the adsorption mechanism of heavy metals on tobacco stem biochar in competitive mode. <b>2019</b> , 26, 26947-26962	12
500	Facile fabrication for core-shell BaFe12O19@C composites with excellent microwave absorption properties. <b>2019</b> , 805, 130-137	29
499	Pre-mixed precursors for modulating the porosity of carbons for enhanced hydrogen storage: towards predicting the activation behaviour of carbonaceous matter. <b>2019</b> , 7, 17466-17479	17
498	Insight into the impact of surface hydrothermal carbon layer on photocatalytic performance of ZnO nanowire. <b>2019</b> , 583, 117145	9
497	Sulfamic acid modified hydrochar derived from sawdust for removal of benzotriazole and Cu(II) from aqueous solution: Adsorption behavior and mechanism. <b>2019</b> , 290, 121765	24
496	High specific capacitance and high energy density supercapacitor electrodes enabled by porous carbon with multilevel pores and self-doped heteroatoms derived from Chinese date. <b>2019</b> , 97, 107455	33
495	Green Hydrothermal Synthesis of N-doped Carbon Dots from Biomass Highland Barley for the Detection of Hg. <b>2019</b> , 19,	38
494	Ultrafast preparation of saccharide-derived carbon microspheres with excellent dispersibility via ammonium persulfate-assisted hydrothermal carbonization. <b>2019</b> , 7, 18840-18845	24
493	Effects of Acidic and Alkaline Metal Triflates on the Hydrothermal Carbonization of Glucose and Cellulose. <b>2019</b> , 33, 7473-7479	13
492	Energy recovery from high-ash municipal sewage sludge by hydrothermal carbonization: Fuel characteristics of biosolid products. <b>2019</b> , 186, 115848	29
491	LiFePO4/C cathode material prepared with a spherical, porous, hollow Fe3(PO4)2/C composite as a precursor for lithium-ion batteries. <b>2019</b> , 25, 5669-5680	
490	Redox Modifications of Carbon Dots Shape Their Optoelectronics. <b>2019</b> , 123, 27937-27944	12
489	Effect of molasses binder on the pelletization of food waste hydrochar for enhanced biofuel pellets production. <b>2019</b> , 14, 100183	7

488	Nanoengineering Carbon Spheres as Nanoreactors for Sustainable Energy Applications. <b>2019</b> , 31, e1903886	147
487	Improvement of Pelletability of Woody Biomass by Torrefaction under Pressurized Steam. <b>2019</b> , 33, 11253-11262	11
486	Fabrication of glucose-derived carbon-decorated magnetic microspheres for extraction of bisphenols from water and tea drinks. <b>2019</b> , 42, 3451-3458	5
485	Preparation of hollow porous molecularly imprinted and aluminum(III) doped silica nanospheres for extraction of the drugs valsartan and losartan prior to their quantitation by HPLC. <b>2019</b> , 186, 702	24
484	Sulfonated Hydrothermal Carbons from Cellulose and Glucose as Catalysts for Glycerol Ketalization. <b>2019</b> , 9, 804	7
483	Hydrochar-derived fuels from waste walnut shell through hydrothermal carbonization: characterization and effect of processing parameters. <b>2019</b> , 11, 1443	16
482	Biochars derived from marine macroalgae as a mesoporous by-product of hydrothermal liquefaction process: Characterization and application in wastewater treatment. <b>2019</b> , 32, 100942	21
481	One step synthesis of N-doped carbon/amorphous iron oxide composite for enhanced photodegradation activity. <b>2019</b> , 6, 105528	
480	Efficient synthesis of carbon microtubesgold nanoparticles composite: optical and micro-analytical study. <b>2019</b> , 125, 1	2
479	Green and simple preparation of carbon-coated iron pyrite thin films for solar cells application. <b>2019</b> , 30, 19752-19759	3
478	Cross-polymerisation between furfural and the phenolics of varied molecular structure in bio-oil. <b>2019</b> , 8, 100324	5
477	Preparing polyester/carbon multifunctional fabrics by phosphoric acid carbonization. <b>2019</b> , 26, 8907-8917	4
476	Molecular Structure and Formation Mechanism of Hydrochar from Hydrothermal Carbonization of Carbohydrates. <b>2019</b> , 33, 9904-9915	26
475	Effect of pyrolysis on basic functional groups of hydrochars. <b>2019</b> , 11, 1117	2
474	Rational design of tailored porous carbon-based materials for CO2 capture. <b>2019</b> , 7, 20985-21003	84
473	Kinetic study on the impact of acidity and acid concentration on the formation of 5-hydroxymethylfurfural (HMF), humins, and levulinic acid in the hydrothermal conversion of fructose. <b>2019</b> , 11, 1155	18
472	Inducing In Situ Hydrothermal Carbonization of Glucose To Synthesize CarbonMIL-101 Hybrid Composites for Improved Hydrogen Uptake. <b>2019</b> , 33, 10123-10132	1
471	Hydrothermal pre-treatment, an efficient tool to improve activated carbon performances. <b>2019</b> , 140, 111717	21

470	Hollow Multihole Carbon Bowls: A Stress-Release Structure Design for High-Stability and High-Volumetric-Capacity Potassium-Ion Batteries. <b>2019</b> , 13, 11363-11371		91
469	Effect of inorganic potassium compounds on the hydrothermal carbonization of Cd-contaminated rice straw for experimental-scale hydrochar. <b>2019</b> , 130, 105357		12
468	Enhanced adsorption of Pb(II) onto modified hydrochar by polyethyleneimine or H3PO4: An analysis of surface property and interface mechanism. <b>2019</b> , 583, 123962		35
467	A new hydrothermal cross-linking ion-imprinted chitosan for high-efficiency uranium removal. <b>2019</b> , 322, 901-911		9
466	Hydrothermal carbonization of disposable diapers. <i>Journal of Environmental Chemical Engineering</i> , <b>2019</b> , 7, 103341	6.8	11
465	Hydrothermal carbonization of lignocellulosic biomass for carbon rich material preparation: A review. <b>2019</b> , 130, 105384		103
464	N-Doped CarbonBilica Composite Confined Pd Nanoparticles for Abatement of Methane Emission From Automobiles. <b>2019</b> , 62, 356-367		2
463	Influence of ammonium salts and temperature on the yield, morphology and chemical structure of hydrothermally carbonized saccharides. <b>2019</b> , 1, 1		10
462	Synthesis of magnetic nickel ferrite/carbon sphere composite for levofloxacin elimination by activation of persulfate. <b>2019</b> , 215, 528-539		31
461	Structural analysis of carbon nanospheres synthesized by CVD: an investigation of surface charges and its effect on the stability of carbon nanostructures. <b>2019</b> , 125, 1		7
460	New and Advanced Porous Carbon Materials in Fine Chemical Synthesis. Emerging Precursors of Porous Carbons. <b>2019</b> , 9, 133		34
459	Effects of temperature, time and acidity of hydrothermal carbonization on the hydrochar properties and nitrogen recovery from corn stover. <b>2019</b> , 122, 175-182		48
458	Sustainable Porous Carbon Materials Derived from Wood-Based Biopolymers for COlCapture. <b>2019</b> , 9,		30
457	Carbon-Support-Based Heterogeneous Nanocatalysts: Synthesis and Applications in Organic Reactions. <b>2019</b> , 8, 1263-1305		39
456	Carbon-GO Composites with Preferential Water versus Ethanol Uptake. <b>2019</b> , 11, 24493-24503		7
455	Rapid synthesis of carbon materials by microwave-assisted hydrothermal method at low temperature and its adsorption properties for uranium (VI). <b>2019</b> , 321, 629-646		4
454	An overview of biodiesel production using recyclable biomass and non-biomass derived magnetic catalysts. <i>Journal of Environmental Chemical Engineering</i> , <b>2019</b> , 7, 103219	6.8	55
453	Hydrothermal treatment of banana leaves for solid fuel combustion. <b>2019</b> , 1-7		2

## (2019-2019)

452	Application in Electrochemical Double-Layer Capacitors (EDLCs) and Direct Carbon Fuel Cells (DCFCs). <b>2019</b> , 12,	18
451	One-Step Preparation of Zwitterionic-Rich Hydrophilic Hydrothermal Carbonaceous Materials for Enrichment of N-Glycopeptides. <b>2019</b> , 7, 11511-11520	17
450	Hierarchical Nanoporous Carbon Templated and Catalyzed by the Bicontinuous Nanoporous Copper for High Performance Electrochemical Capacitors. <b>2019</b> , 4, 6437-6444	0
449	Core-Shell and Hollow Particles of Carbon and SiC Prepared from Hydrochar. <b>2019</b> , 12,	1
448	One-Step Interfacial Functionalization and Synthesis of MoModified TiO2 Nanocrystalline as Composite PtRu Anode Catalyst Support for DMFCs. <b>2019</b> , 4, 5055-5063	1
447	Sustainable Water Purification Using an Engineered Solvothermal Carbon Based Membrane Derived from a Eutectic System. <b>2019</b> , 7, 10143-10153	16
446	Template-Assisted Synthesis of Luminescent Carbon Nanofibers from Beverage-Related Precursors by Microwave Heating. <b>2019</b> , 24,	3
445	Hydrothermal carbonization of yard waste for solid bio-fuel production: Study on combustion kinetic, energy properties, grindability and flowability of hydrochar. <b>2019</b> , 91, 108-119	48
444	Hydrothermal carbonization of sewage sludge: A critical analysis of process severity, hydrochar properties and environmental implications. <b>2019</b> , 93, 1-13	60
443	The mechanism of wet/dry torrefaction pretreatment on the pyrolysis performance of tobacco stalk. <b>2019</b> , 286, 121390	18
442	Advancement in science and technology of carbon dot-polymer hybrid composites: a review. <b>2019</b> , 1, 022001	66
441	Synthesis of a Carbonaceous Two-Dimensional Material. <b>2019</b> , 11, 21308-21313	3
440	Condensation of Ecarbonyl Aldehydes Leads to the Formation of Solid Humins during the Hydrothermal Degradation of Carbohydrates. <b>2019</b> , 4, 7330-7343	37
439	One-Pot Hydrothermal Synthesis of Nitrogen Functionalized Carbonaceous Material Catalysts with Embedded Iron Nanoparticles for CO2 Hydrogenation. <b>2019</b> , 7, 8331-8339	25
438	Close-Packed Langmuir Monolayers of Saccharide-Based Carbon Dots at the Air-Subphase Interface. <b>2019</b> , 35, 6708-6718	15
437	A green, rapid, scalable and versatile hydrothermal strategy to fabricate monodisperse carbon spheres with tunable micrometer size and hierarchical porosity. <i>Chemical Engineering Journal</i> , <b>2019</b> , 14.7, 372, 1164-1173	7 20
436	Nanoporous Carbons with Tuned Porosity. <b>2019</b> , 91-135	2
435	Effect of Pyrolysis Temperature on Acidic Oxygen-Containing Functional Groups and Electron Storage Capacities of Pyrolyzed Hydrochars. <b>2019</b> , 7, 8387-8396	28

434	Facile and High-Yield Synthesis of Carbon Quantum Dots from Biomass-Derived Carbons at Mild Condition. <b>2019</b> , 7, 7833-7843		81
433	One-step preparation of phosphate-rich carbonaceous spheres via a hydrothermal approach for phosphopeptide analysis. <b>2019</b> , 21, 2052-2060		20
432	Synthesis of Catalyst Support From Waste Biomass for Impregnation of Catalysts in Biofuel Production. <b>2019</b> , 199-220		
431	Biocompatible magnetic N-rich activated carbon from egg white biomass and sucrose: Preparation, characterization and investigation of dye adsorption capacity from aqueous solution. <b>2019</b> , 15, 157-165		23
430	Calcium Chloride Activation of Mung Bean: A Low-Cost, Green Route to N-Doped Porous Carbon for Supercapacitors. <b>2019</b> , 4, 3432-3439		10
429	Borax-assisted hydrothermal carbonization to fabricate monodisperse carbon spheres with high thermostability. <b>2019</b> , 6, 065615		6
428	Carbon-Coated and Interfacial-Functionalized Mixed-Phase Mo Ti O Nanotubes as Highly Active and Durable PtRu Catalyst Support for Methanol Electrooxidation. <b>2019</b> , 14, 1549-1556		2
427	Pyrolysis vs. hydrothermal carbonization: Understanding the effect of biomass structural components and inorganic compounds on the char properties. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2019</b> , 140, 137-147		45
426	Oxidative ageing induces change in the functionality of biochar and hydrochar: Mechanistic insights from sorption of atrazine. <b>2019</b> , 249, 1002-1010		26
425	Quick, selective NMR spectra of COH moieties in C-enriched solids. <b>2019</b> , 301, 80-84		3
424	Glucose-induced fabrication of Bi/FeC2O412H2O heterojunctions: a bifunctional catalyst with enhanced photocatalytic and Fenton oxidation efficiency. <b>2019</b> , 9, 2543-2552		5
423	High Capacity Nano-Sized Carbon Spheres for Lithium-Ion Battery Anode Materials. 2019, 11,		2
422	Structural differences of the soluble oligomers and insoluble polymers from acid-catalyzed conversion of sugars with varied structures. <b>2019</b> , 216, 167-179		17
421	Hydrothermal carbonization for energy-efficient processing of sewage sludge: A review. <b>2019</b> , 108, 423-4	40	142
420	Cu2In2ZnS5/Gd2O2S:Tb for full solar spectrum photoreduction of Cr(VI) and CO2 from UV/vis to near-infrared light. <b>2019</b> , 249, 82-90		72
419	Carbon microspheres prepared from the hemicelluloses-rich pre-hydrolysis liquor for contaminant removal. <b>2019</b> , 213, 296-303		16
418	Synthesis of hollow and aggregated CeO2:Sm3+ microspheres and their redox-responsive luminescence. <b>2019</b> , 787, 1074-1081		7
417	Tuning the Functional Groups on Carbon Nanodots and Antioxidant Studies. <b>2019</b> , 24,		24

416	Floating hollow carbon spheres for improved solar evaporation. <b>2019</b> , 146, 232-247		15
415	Preparation of three-dimensional honeycomb carbon materials and their adsorption of Cr(VI).  Chemical Engineering Journal, 2019, 367, 9-16	4.7	78
414	Fluororganic Groups Grafted on Carbon Microspheres. 2019,		
413	Waste Xylose Mother Liquor Derived 3 D Graphene-Like Porous Carbon with Ultrahigh Specific Capacitance and Energy Density for Supercapacitors. <b>2019</b> , 4, 12435-12444		4
412	A rapid competitive ELISA assay of Okadaic acid level based on epoxy-functionalized magnetic beads. <b>2019</b> , 30, 1286-1302		8
411	Investigating the Effect of Reaction Time on Carbon Dot Formation, Structure, and Optical Properties. <b>2019</b> , 4, 21658-21665		36
410	Cross-linked polyfuran networks with elastomeric behaviour based on humins biorefinery by-products. <b>2019</b> , 21, 6277-6289		16
409	A review of the current knowledge and challenges of hydrothermal carbonization for biomass conversion. <b>2019</b> , 92, 1779-1799		133
408	Xanthoceras sorbifolia seed coats derived porous carbon with unique architecture for high rate performance supercapacitors. <b>2019</b> , 91, 119-126		20
407	Hydrothermal Carbonization for Hydrochar Production and Its Application. <b>2019</b> , 275-294		17
406	Facile one-pot synthesized hydrothermal carbon from cyclodextrin: A stationary phase for hydrophilic interaction liquid chromatography. <b>2019</b> , 1585, 144-151		6
405	Preparing a magnetic activated carbon with expired beverage as carbon source and KOH as activator. <b>2019</b> , 96, 575-587		22
404	One-step hydrothermal synthesis of Fe2O3@TiO2 microspheres with high lithium storage performance. <b>2019</b> , 6, 035503		2
403	Accurate Control of Cage-Like CaO Hollow Microspheres for Enhanced CO Capture in Calcium Looping via a Template-Assisted Synthesis Approach. <b>2019</b> , 53, 2249-2259		75
402	Influence of Multiwalled Carbon Nanotubes as Additives in Biomass-Derived Carbons for Supercapacitor Applications. <b>2019</b> , 11, 6066-6077		46
401	Mechanical and thermal properties of poly(vinyl chloride) composites filled with carbon microspheres chemically modified by a biopolymer coupling agent. <b>2019</b> , 172, 29-35		19
400	Pro- and anti-oxidant properties of near-infrared (NIR) light responsive carbon nanoparticles. <b>2019</b> , 134, 165-176		11
399	Correlations between the physicochemical properties of hydrochar and specific components of waste lettuce: Influence of moisture, carbohydrates, proteins and lipids. <b>2019</b> , 272, 482-488		25

398	Facile preparation of fluorescent carbon dots for label-free detection of Fe3+. <b>2019</b> , 370, 156-163		28
397	Ultra-small amorphous carbon dots: preparation, photoluminescence properties, and their application as TiO2 photosensitizers. <b>2019</b> , 54, 5280-5293		15
396	Synthesis and characterization of carbon microspheres from rubber wood by hydrothermal carbonization. <b>2019</b> , 94, 1374-1383		11
395	Fabrication of advance magnetic carbon nano-materials and their potential applications: A review. <i>Journal of Environmental Chemical Engineering</i> , <b>2019</b> , 7, 102812	6.8	43
394	Carbon spheres as lubricant additives for improving tribological performance of polyetheretherketone. <b>2019</b> , 54, 5127-5135		18
393	Effect of hydrothermal carbonization temperature on pH, dissociation constants, and acidic functional groups on hydrochar from cellulose and wood. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2019</b> , 137, 138-145	6	63
392	Nitrogen-doped porous carbon via ammonothermal carbonization for supercapacitors. <b>2019</b> , 89, 101-11	0	6
391	Highly efficient removal of hazardous aromatic pollutants by micro-nano spherical carbons synthesized from different chemical activation methods: a comparison study. <b>2019</b> , 40, 1376-1391		10
390	Hydrothermal Carbonization of Argan Nut Shell: Functional Mesoporous Carbon with Excellent Performance in the Adsorption of Bisphenol A and Diuron. <b>2020</b> , 11, 1565-1584		43
389	Fabrication of C@MoxTi1NO2Ihanocrystalline with functionalized interface as efficient and robust PtRu catalyst support for methanol electrooxidation. <b>2020</b> , 40, 7-14		8
388	Characteristics of Hydrochars Prepared from Cassava Residues Using Different Aqueous Media. <b>2020</b> , 11, 2857-2862		3
387	Preparation of magnetic biochar obtained from one-step pyrolysis of salix mongolica and investigation into adsorption behavior of sulfadimidine sodium and norfloxacin in aqueous solution. <b>2020</b> , 41, 214-226		7
386	Styrene oxidation catalyzed by copper(II) C-scorpionates in homogenous medium and immobilized on sucrose derived hydrochars. <b>2020</b> , 357, 56-63		9
385	Fuel properties and combustion kinetics of hydrochar derived from co-hydrothermal carbonization of tobacco residues and graphene oxide. <b>2020</b> , 10, 189-201		17
384	The influence of cellulose acetate butyrate membrane structure on CO2/N2 separation: effect of casting thickness and solvent exchange time. <b>2020</b> , 207, 474-492		4
383	Production of HMF in high yield using a low cost and recyclable carbonaceous catalyst. <i>Chemical Engineering Journal</i> , <b>2020</b> , 382, 122766	14.7	24
382	Predictions of energy recovery from hydrochar generated from the hydrothermal carbonization of organic wastes. <b>2020</b> , 145, 1883-1889		18
381	Understanding structure-performance correlation of biochar materials in environmental remediation and electrochemical devices. <i>Chemical Engineering Journal</i> , <b>2020</b> , 382, 122977	14.7	59

## (2020-2020)

Concave carbon-microsphere-based solid acid catalysts for transesterification and epoxidation. **2020**, 207, 1685-1695

379	Solvent Effects on Degradative Condensation Side Reactions of Fructose in Its Initial Conversion to 5-Hydroxymethylfurfural. <b>2020</b> , 13, 501-512		20
378	Novel NiCo2S4/CS membranes as efficient catalysts for activating persulfate and its high activity for degradation of nimesulide. <i>Chemical Engineering Journal</i> , <b>2020</b> , 381, 122517	14.7	8
377	A Comprehensive Review on Hydrothermal Carbonization of Biomass and its Applications. <b>2020</b> , 3, 1-19		52
376	Understanding the influence of biomass particle size and reaction medium on the formation pathways of hydrochar. <b>2020</b> , 10, 1357-1380		16
375	Novel Synthesis Without Separation and Purification Processes of Carbon Dots and Silver/Carbon Hybrid Nanoparticles. <b>2020</b> , 30, 1352-1359		3
374	Influence of ionic liquid type on porous carbon formation during the ionothermal pyrolysis of cellulose. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2020</b> , 145, 104728	6	8
373	Palladium Nanoparticles Anchored on Thiol Functionalized Xylose Hydrochar Microspheres: An Efficient Heterogeneous Catalyst for Suzuki Cross-Coupling Reactions. <b>2020</b> , 150, 1011-1019		5
372	Biorefinery Byproducts and Epoxy Biorenewable Monomers: A Structural Elucidation of Humins and Triglycidyl Ether of Phloroglucinol Cross-Linking. <b>2020</b> , 21, 517-533		10
371	The synthesis and performance analysis of various biomass-based carbon materials for electric double-layer capacitors: A review. <b>2020</b> , 44, 2426-2454		16
370	The effect of moisture on hydrocarbon-based solvent liquefaction of pine, cellulose and lignin. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2020</b> , 146, 104758	6	4
369	Preparation of nitrogen-doped porous carbon material by a hydrothermal-activation two-step method and its high-efficiency adsorption of Cr(VI). <b>2020</b> , 387, 121987		56
368	Carbonization: A feasible route for reutilization of plastic wastes. <b>2020</b> , 710, 136250		53
367	Bioconversion of agricultural waste into poly-Eglutamic acid in solid-state bioreactors at different scales. <b>2020</b> , 102, 939-948		12
366	In-depth comparison of morphology, microstructure, and pathway of char derived from sewage sludge and relevant model compounds. <b>2020</b> , 102, 432-440		6
365	Evolution Process and Controlled Synthesis of Humins with 5-Hydroxymethylfurfural (HMF) as Model Molecule. <b>2020</b> , 13, 513-519		35
364	Synthesis of amorphous and graphitized porous nitrogen-doped carbon spheres as oxygen reduction reaction catalysts. <b>2020</b> , 11, 1-15		7
363	Technologies for wastewater sludge utilization and energy production: Hydrothermal carbonization of lignocellulosic biomass and sewage sludge. <b>2020</b> , 133-153		1

362	Electrochemical performance of hybrid membrane of polyaniline layer/full carbon layer coating on nickel foam. <b>2020</b> , 139, 105455	25
361	Downstream augmentation of hydrothermal carbonization with anaerobic digestion for integrated biogas and hydrochar production from the organic fraction of municipal solid waste: A circular economy concept. <b>2020</b> , 706, 135907	43
360	Black yet green: Sulfonic acid functionalized carbon as an efficent catalyst for highly selective isomerization of pinene oxide to trans-carveol. <b>2020</b> , 268, 118456	22
359	Uranium biosorption by immobilized active yeast cells entrapped in calcium-alginate-PVA-GO-crosslinked gel beads. <b>2020</b> , 108, 273-286	12
358	Eco-friendly facile synthesis of glucosederived microporous carbon spheres electrodes with enhanced performance for water capacitive deionization. <b>2020</b> , 477, 114278	38
357	Facile synthesis of hard carbon microspheres from polyphenols for sodium-ion batteries: insight into local structure and interfacial kinetics. <b>2020</b> , 18, 100505	12
356	Chitosan as a sustainable precursor for nitrogen-containing carbon nanomaterials: synthesis and uses. <b>2020</b> , 10, 100053	17
355	Co-hydrothermal carbonization of food waste with yard waste for solid biofuel production: Hydrochar characterization and its pelletization. <b>2020</b> , 118, 521-533	38
354	Supermagnetic Sugarcane Bagasse Hydrochar for Enhanced Osteoconduction in Human Adipose Tissue-Derived Mesenchymal Stem Cells. <b>2020</b> , 10,	2
353	Catalytic Formation of Lactic and Levulinic Acids from Biomass Derived Monosaccarides through Sn-Beta Formed by Impregnation. <b>2020</b> , 10, 1219	3
352	The catalytic activity of KMoCo carbon spheres for higher alcohols synthesis from syngas. <b>2020</b> , 605, 117803	1
351	Fate of Nitrogen, Phosphate, and Potassium during Hydrothermal Carbonization and the Potential for Nutrient Recovery. <b>2020</b> , 8, 15507-15516	9
350	Sucrose-based reticulated vitreous carbon foams and their modification with nickel hexacyanoferrate for energy storage applications. <b>2020</b> , 109, 108084	7
349	Two phase olive mill waste valorization. Hydrochar production and phenols extraction by hydrothermal carbonization. <b>2020</b> , 143, 105875	4
348	A comparative study of carbon microsphere preparation by the hydrothermal carbonization of waste cotton fibers, viscose fibers and Avicel. <b>2020</b> , 35, 286-294	5
347	An Enhanced Reduction-Adsorption Strategy for Cr(VI): Fabrication and Application of L-Cysteine-doped Carbon@Polypyrrole with a Core/Shell Composite Structure. <b>2020</b> , 36, 11508-11516	12
346	Recent advances in the development and applications of biomass-derived carbons with uniform porosity. <b>2020</b> , 8, 18464-18491	27
345	Structural Insights of Humins/Epoxidized Linseed Oil/ Hardener Terpolymerization. 2020, 12,	8

344	Hydrothermal treatment of municipal solid waste into coal-like fuel. <b>2020</b> , 483, 012021	1
343	Investigating the Effect of Processing Parameters on the Products of Hydrothermal Carbonization of Corn Stover. <b>2020</b> , 12, 5100	15
342	Soft templating production of porous carbon adsorbents for CO2 and H2S capture. <b>2020</b> , 169, 193-204	13
341	Superhydrophilic carbonaceous-silver nanofibrous membrane for complex oil/water separation and removal of heavy metal ions, organic dyes and bacteria. <b>2020</b> , 614, 118491	36
340	One-pot synthesis of two-dimensional multilayered graphitic carbon nanosheets by low-temperature hydrothermal carbonization using the in situ formed copper as a template and catalyst. <b>2020</b> , 56, 11645-11648	3
339	Hydrothermal synthesis of carbon microspheres from sucrose with citric acid as a catalyst: physicochemical and structural properties. <b>2020</b> , 14, 1042-1050	5
338	Production of oxalic acid by electrochemical reduction of CO2 using silver-carbon material from babassu coconut mesocarp. <b>2020</b> , 147, 109678	8
337	Hydrothermal synthesis and applications of advanced carbonaceous materials from biomass: a review. <b>2020</b> , 3, 267-284	34
336	Strategic design of magnetic carbonaceous nanocomposites and its application as multifunctional adsorbent. <b>2020</b> , 161, 758-771	15
335	Enhancing hydrogen-rich syngas production and energy recovery efficiency by integrating hydrothermal carbonization pretreatment with steam gasification. <b>2020</b> , 210, 118655	8
334	Elucidating hydrochar morphology and oxygen functionality change with hydrothermal treatment temperature ranging from subcritical to supercritical conditions. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2020</b> , 152, 104965	3
333	Investigation of physico-chemical properties of hydrochar and composition of bio-oil from the hydrothermal treatment of dairy manure: Effect of type and usage volume of extractant. <b>2020</b> , 116, 157-165	6
332	Investigating the effect of sugar-terminated nanoparticles on amyloid fibrillogenesis of Elactoglobulin. <b>2020</b> , 165, 291-307	3
331	Removal of pharmaceutically active compounds (PhACs) and bacteria inactivation from urban wastewater effluents by UVA-LED photocatalysis with Gd3+ doped BiVO4. <i>Journal of Environmental</i> 6.8 <i>Chemical Engineering</i> , <b>2020</b> , 8, 104540	9
330	Hydrothermal degradation of Estradiol and oxytetracycline at selective reaction severities. <b>2020</b> , 2, 1	2
329	Experimental and Computational Evaluation of Heavy Metal Cation Adsorption for Molecular Design of Hydrothermal Char. <b>2020</b> , 13, 4203	3
328	Fabrication of low-cost sustainable electrocatalyst: a diagnostic tool for multifunctional disorders in human fluids. <b>2020</b> , 8, 9502-9511	1
327	Properties of sago waste charcoal using hydrothermal and pyrolysis carbonization. <b>2020</b> , 1	4

The effects of biochar and AM fungi (Funneliformis mosseae) on bioavailability Cd in a highly contaminated acid soil with different soil phosphorus supplies. **2020**, 27, 44440-44451

325	Tunable Supercapacitor Materials Derived from Hydrochar/Gold Nanograpes. 2020, 3, 9348-9359	1
324	High yield synthesis of graphene quantum dots from biomass waste as a highly selective probe for Fe sensing. <b>2020</b> , 10, 21262	35
323	Exceptional rate capability from carbon-encapsulated polyaniline supercapacitor electrodes. <b>2020</b> , 3, 389-397	22
322	Structural Effects of Cellulose on Hydrolysis and Carbonization Behavior during Hydrothermal Treatment. <b>2020</b> , 5, 12210-12223	21
321	Controllable synthesis of hierarchical nanostructured anhydrous MgCO3 and its effect on mechanical and thermal properties of PVC composites. <b>2020</b> , 135, 105926	7
320	Calculating the Reaction Order and Activation Energy for the Hydrothermal Carbonization of Fructose. <b>2020</b> , 92, 692-700	7
319	High-Efficiency Synthesis of 5-Hydroxymethylfurfural from Fructose over Highly Sulfonated Organocatalyst. <b>2020</b> , 59, 17218-17227	9
318	The hierarchical nanostructured Co-doped WO3/carbon and their improved acetone sensing perfomance. <b>2020</b> , 117, 105157	13
317	Polymeric carbon nitrides and related metal-free materials for energy and environmental applications. <b>2020</b> , 8, 11075-11116	82
316	Biogas production from strawthe challenge feedstock pretreatment. <b>2020</b> , 1	7
315	Cross-polymerisation between the model furans and carbohydrates in bio-oil with acid or alkaline catalysts. <b>2020</b> , 93, 1678-1689	12
314	Two-Dimensional Co-Compounded Carbonaceous Nanoplates for Rubber Tire Composites with Enhanced Mechanical Properties. <b>2020</b> , 3, 6321-6327	O
313	Carbon nanoparticles production using solvent assisted hydrothermal carbonization. <b>2020</b> , 108, 107960	1
312	Biochar for Wastewater TreatmentConversion Technologies and Applications. 2020, 10, 3492	75
311	Bottom-up synthesis of highly soluble carbon materials. <b>2020</b> , 55, 11808-11828	11
310	A highly efficient biomass based electrocatalyst for cathodic performance of lithium®xygen batteries: Yeast derived hydrothermal carbon. <b>2020</b> , 349, 136411	9
309	Synthesis and properties of carbon microspheres based on tannin ucrose mixtures treated in hydrothermal conditions. <b>2020</b> , 154, 112564	8

308	Hydrochar structural determination from artifact-free Raman analysis. 2020, 167, 378-387	6
307	One-step vapor-phase assisted hydrothermal synthesis of functionalized carbons: Effects of surface groups on their physicochemical properties and adsorption performance for Cr(VI). <b>2020</b> , 528, 146984	29
306	A novel stabilized carbon-coated nZVI as heterogeneous persulfate catalyst for enhanced degradation of 4-chlorophenol. <b>2020</b> , 138, 105639	38
305	Effects of Metal Ions, Metal, and Metal Oxide Particles on the Synthesis of Hydrochars. <b>2020</b> , 5, 5601-5607	5
304	Designing of nanoflakes anchored nanotubes-like MnCo2S4/halloysite composites for advanced battery like supercapacitor application. <b>2020</b> , 341, 135973	17
303	Waste biomass valorization through production of xylose-based porous carbon microspheres for supercapacitor applications. <b>2020</b> , 105, 492-500	24
302	Recent advances in hydrothermal carbonisation: from tailored carbon materials and biochemicals to applications and bioenergy. <b>2020</b> , 22, 4747-4800	58
301	Techno-economic assessment of wet and dry torrefaction of biomass feedstock. <b>2020</b> , 207, 118287	18
300	Hydrothermal carbonization of organic wastes to carbonaceous solid fuel 🖪 review of mechanisms and process parameters. <i>Fuel</i> , <b>2020</b> , 279, 118472	54
299	Anaerobic co-digestion of corn stover and wastewater from hydrothermal carbonation. <b>2020</b> , 315, 123788	11
298	Hydrothermal carbonization of lignocellulosic biomass and effects of combined Lewis and Brlisted acid catalysts. <i>Fuel</i> , <b>2020</b> , 279, 118458	17
297	Carbon Dots as a Protective Agent Alleviating Abiotic Stress on Rice (L.) through Promoting Nutrition Assimilation and the Defense System. <b>2020</b> , 12, 33575-33585	19
296	Hydrothermal Carbon/Carbon Nanotube Composites as Electrocatalysts for the Oxygen Reduction Reaction. <b>2020</b> , 4, 20	2
295	Hydrolysis and carbonization of reactive dyes/cotton fiber in hydrothermal environment. 2020, 103, 370-377	2
294	Sorbitol Cyclodehydration to Isosorbide Catalyzed by Acidic Carbon Obtained from Reaction By-Product. <b>2020</b> , 5, 1751-1759	3
293	Phosphorus-modified b-axis oriented hierarchical ZSM-5 zeolites for enhancing catalytic performance in a methanol to propylene reaction. <b>2020</b> , 594, 117464	18
292	Evidence for a core-shell structure of hydrothermal carbon. <b>2020</b> , 161, 423-431	15
291	Effect of annealing temperature on charge storage kinetics of an electrospun deposited manganese oxide supercapacitor. <b>2020</b> , 511, 145466	13

290	Hydrothermal carbonization in the synthesis of sustainable porous carbon materials for water treatment. <b>2020</b> , 445-503	3
289	The Influence of pH on the Combustion Properties of Bio-Coal Following Hydrothermal Treatment of Swine Manure. <b>2020</b> , 13, 331	10
288	Comparison of poly-Eglutamic acid production between sterilized and non-sterilized solid-state fermentation using agricultural waste as substrates. <b>2020</b> , 255, 120248	9
287	Versatile by design: Hollow Co3O4 architectures for superior lithium storage prepared by alternative green Pechini method. <b>2020</b> , 510, 145431	3
286	Hydrothermal carbon nanospheres assisted-fabrication of PVDF ultrafiltration membranes with improved hydrophilicity and antifouling performance. <b>2020</b> , 247, 116889	21
285	Insights in mechanisms of carbonaceous microparticles formation from black liquor hydrothermal conversion. <b>2020</b> , 161, 104817	3
284	Soybean-derived blue photoluminescent carbon dots. <b>2020</b> , 11, 606-619	15
283	Hydochar and biochar: Production, physicochemical properties and techno-economic analysis. <b>2020</b> , 310, 123442	53
282	Removal of Organic Pollutants from Effluent of Anaerobic Digester Using Hydrochars Produced from Faecal Simulant and Sewage Sludge. <b>2020</b> , 231, 1	5
281	Size controllable synthesis and photocatalytic performance of mesoporous TiO2 hollow spheres. <b>2020</b> , 48, 105-113	14
280	Biomaterial-based flower-like MnO2@ carbon microspheres for rapid adsorption of amoxicillin from wastewater. <b>2020</b> , 309, 113074	24
279	Porous Carbon Materials Obtained by the Hydrothermal Carbonization of Orange Juice. <b>2020</b> , 10,	10
278	Cross-polymerization between the model furans and phenolics in bio-oil with acid or alkaline catalysts. <b>2021</b> , 6, 138-149	7
277	Thermochemical conversion of apple seeds before and after supercritical CO2 extraction: an assessment through evolved gas analysis. <b>2021</b> , 11, 473-488	3
276	A two-step process for energy-efficient conversion of food waste via supercritical water gasification: Process design, products analysis, and electricity evaluation. <b>2021</b> , 752, 142331	9
275	Organoarsenic conversion to As(III) in subcritical hydrothermal reaction of livestock manure. <b>2021</b> , 402, 123571	5
274	Carbon dots as light converter for plant photosynthesis: Augmenting light coverage and quantum yield effect. <b>2021</b> , 410, 124534	22
273	Enhanced reduction and in-situ stabilization of Cr(VI) by Fe3O4@polydopamine magnetic microspheres embedded in sludge-based carbonaceous matrix. <b>2021</b> , 536, 147980	8

272	Catalytic carbon materials from biomass. <b>2021</b> , 161-195	4
271	Landfill leachate as an alternative moisture source for hydrothermal carbonization of municipal solid wastes to solid biofuels. <b>2021</b> , 320, 124410	9
270	Impact of vegetation type and pre-processing on product yields and properties following hydrothermal conversion of conservation biomass. <b>2021</b> , 137, 110462	2
269	High quantum yield boron-doped carbon dots: a ratiometric fluorescent probe for highly selective and sensitive detection of Mg2+ ions. <b>2021</b> , 9, 1632-1640	15
268	Persulfate assisted hydrothermal processing of spirulina for enhanced deoxidation carbonization. <b>2021</b> , 322, 124543	8
267	Bridging the gap to hydrochar production and its application into frameworks of bioenergy, environmental and biocatalysis areas. <b>2021</b> , 320, 124399	15
266	Sodium alginate assisted preparation of oxygen-doped microporous carbons with enhanced electrochemical energy storage and hydrogen uptake. <b>2021</b> , 46, 896-905	4
265	Characterization of surface-oxides on char under periodically changing oxidation/desorption conditions. <b>2021</b> , 137, 110453	2
264	Gas-phase hydrodeoxygenation of bio-oil model compound over nitrogen-doped carbon-supported palladium catalyst. <b>2021</b> , 38, 4345-4353	2
263	Sustainable electroactive materials for energy storage. <b>2021</b> , 28, 100431	Ο
263	A review on nitrogen transformation in hydrochar during hydrothermal carbonization of biomass containing nitrogen. <b>2021</b> , 756, 143679	23
	A review on nitrogen transformation in hydrochar during hydrothermal carbonization of biomass	
262	A review on nitrogen transformation in hydrochar during hydrothermal carbonization of biomass containing nitrogen. <b>2021</b> , 756, 143679  Biomass-derived biochar materials as sustainable energy sources for electrochemical energy	23
262	A review on nitrogen transformation in hydrochar during hydrothermal carbonization of biomass containing nitrogen. <b>2021</b> , 756, 143679  Biomass-derived biochar materials as sustainable energy sources for electrochemical energy storage devices. <b>2021</b> , 137, 110464	23 35
262 261 260	A review on nitrogen transformation in hydrochar during hydrothermal carbonization of biomass containing nitrogen. 2021, 756, 143679  Biomass-derived biochar materials as sustainable energy sources for electrochemical energy storage devices. 2021, 137, 110464  Carbonization of phloroglucinol promoted by heteropoly acids. 2021, 56, 2944-2960  Experimental Investigation on Hydrophobic Behavior of Carbon Spheres Coated Surface Made from	23 35 7
262 261 260 259	A review on nitrogen transformation in hydrochar during hydrothermal carbonization of biomass containing nitrogen. 2021, 756, 143679  Biomass-derived biochar materials as sustainable energy sources for electrochemical energy storage devices. 2021, 137, 110464  Carbonization of phloroglucinol promoted by heteropoly acids. 2021, 56, 2944-2960  Experimental Investigation on Hydrophobic Behavior of Carbon Spheres Coated Surface Made from Microplastics. 2021, 9, 2159-2174  Fused sphere carbon monoliths with honeycomb-like porosity from cellulose nanofibers for oil and	23 35 7 2
262 261 260 259 258	A review on nitrogen transformation in hydrochar during hydrothermal carbonization of biomass containing nitrogen. 2021, 756, 143679  Biomass-derived biochar materials as sustainable energy sources for electrochemical energy storage devices. 2021, 137, 110464  Carbonization of phloroglucinol promoted by heteropoly acids. 2021, 56, 2944-2960  Experimental Investigation on Hydrophobic Behavior of Carbon Spheres Coated Surface Made from Microplastics. 2021, 9, 2159-2174  Fused sphere carbon monoliths with honeycomb-like porosity from cellulose nanofibers for oil and water separation 2021, 11, 2202-2212  Functional green-based nanomaterials towards sustainable carbon capture and sequestration. 2021	23 35 7 2

254	Sustainable development of ultrathin porous carbon nanosheets with highly accessible defects from biomass waste for high-performance capacitive desalination.	4
253	Size-controllable carbon spheres doped Ni (II) for enhancing the catalytic oxidation of methanol. <b>2021</b> , 45, 248-260	О
252	Techno-Economic Analysis of a Process for the Aqueous Conversion of Corn Stover into Lactic and Levulinic Acid through Sn-Beta Catalysis. <b>2021</b> , 9, 436	O
251	Formation of Carbon Quantum Dots via Hydrothermal Carbonization: Investigate the Effect of Precursors. <b>2021</b> , 14, 986	10
250	Selective Cocatalyst Deposition on ZnTiO N Hollow Nanospheres with Efficient Charge Separation for Solar-Driven Overall Water Splitting. <b>2021</b> , 17, e2100084	8
249	Comparative Study of Carbon Nanosphere and Carbon Nanopowder on Viscosity and Thermal Conductivity of Nanofluids. <b>2021</b> , 11,	3
248	Hyperbranched Poly(amido amine) Demulsifiers Using Diaminonaphthalene as the Central Core and Their Demulsification Performance in Oil-in-Water and Water-in-Oil Emulsions. <b>2021</b> , 35, 3095-3103	9
247	Advances in Post-Combustion CO Capture by Physical Adsorption: From Materials Innovation to Separation Practice. <b>2021</b> , 14, 1428-1471	16
246	Preparation of gelatin-derived nitrogen-doped large pore volume porous carbons as sulfur hosts for lithium-sulfur batteries. <b>2021</b> , 36, 198-208	5
245	Characteristics of Hydrochars Derived from Glucose, Protein, and Cellulose by Hydrothermal Carbonization Treatment. <b>2021</b> , 15, 97-104	1
244	The effect of biochar, hydrochar particles and dissolved organic matter on the photodegradation of metribuzin herbicide in aquatic media. <i>Journal of Environmental Chemical Engineering</i> , <b>2021</b> , 9, 105027	7
243	Glucose-Induced Monodisperse Iron Oxide/Graphene Oxide Catalysts for Efficient Fischer Tropsch Synthesis. <b>2021</b> , 35, 4428-4436	1
242	Paper waste sludge derived-hydrochar modified by iron (III) chloride for effective removal of Cr(VI) from aqueous solution: Kinetic and isotherm studies. <b>2021</b> , 39, 101877	7
241	Visible-Light-Responsive Photocatalytic Activity Significantly Enhanced by Active [+] Defects in Self-Assembled ZnO Nanoparticles. <b>2021</b> , 60, 4475-4496	9
240	Adsorption of Volatile Organic Compounds (VOCs) on Oxygen-rich Porous Carbon Materials Obtained from Glucose/Potassium Oxalate. <b>2021</b> , 16, 1118-1129	3
239	Rational Functionalization Towards Redox-Active TEMPO Stable Free-Radical-Hydrochar Composites. <b>2021</b> , 14, 2042-2049	1
238	Sustainable Carbon Materials toward Emerging Applications <b>2021</b> , 5, e2001250	12
237	Kinetic Study of the Hydrothermal Carbonization Reaction of Glucose and Its Product Structures. <b>2021</b> , 60, 4552-4561	7

## (2021-2021)

236	LiBr hydrate as reaction medium for preparation of carbon spheres from wood powders via hydrothermal carbonization. <b>2021</b> , 113, 108295	2
235	Biowaste hydrothermal carbonization for hydrochar valorization: Skeleton structure, conversion pathways and clean biofuel applications. <b>2021</b> , 324, 124686	21
234	Preparation and characterization of hydrochar-derived activated carbon from glucose by hydrothermal carbonization. 1	2
233	Algae-based carbons: Design, preparation and recent advances in their use in energy storage, catalysis and adsorption. <b>2021</b> , 36, 278-303	5
232	Novel biochar and hydrochar for the adsorption of 2-nitrophenol from aqueous solutions: An approach using the PVSDM model. <b>2021</b> , 269, 128748	10
231	Carbon dots prepared by thermal reactions and selective detections of copper and mercury ions in visible spectrum. <b>2021</b> , 127, 1	O
230	Co-hydrothermal carbonization of pineapple and watermelon peels: Effects of process parameters on hydrochar yield and energy content. <b>2021</b> , 15, 100720	1
229	Improved thermal conductivity and stability of Na2SO4?10H2O PCMs system by incorporation of Al/C hybrid nanoparticles. <b>2021</b> , 12, 982-988	7
228	Self-generation of low ash carbon microspheres from the hydrothermal supernatant of anaerobic digestate: Formation insights and supercapacitor performance. <b>2021</b> , 6, 100097	4
227	Uncatalyzed and acid-aided microwave hydrothermal carbonization of orange peel waste. <b>2021</b> , 126, 106-118	3
226	Sustainable and high-quality synthesis of carbon nanospheres with excellent dispersibility via synergistic external pressure- and PSSMA-assisted hydrothermal carbonization. <b>2021</b> ,	2
225	Effects of Metal Chlorides on the Hydrothermal Carbonization of Grape Seeds. <b>2021</b> , 35, 8834-8843	1
224	From useless humins by-product to Nb@graphite-like carbon catalysts highly efficient in HMF synthesis. <b>2021</b> , 618, 118130	5
223	Process Water Recirculation during Hydrothermal Carbonization of Waste Biomass: Current Knowledge and Challenges. <b>2021</b> , 14, 2962	7
222	Efficient adsorption-reduction synergistic effects of sulfur, nitrogen and oxygen heteroatom co-doped porous carbon spheres for chromium(VI) removal. <b>2021</b> , 618, 126502	7
221	Biomass-Derived Carbon Materials: Controllable Preparation and Versatile Applications. <b>2021</b> , 17, e2008079	21
220	Carbon substrates: a review on fabrication, properties and applications. <b>2021</b> , 31, 557-580	15
219	Influence of feedwater pH on the CO2 reactivity of hydrochars. Co-carbonisation with a bituminous coal. <b>2021</b> , 170, 824-831	O

218	Contrasting impacts of chemical and physical ageing on hydrochar properties and sorption of norfloxacin with coexisting Cu. <b>2021</b> , 772, 145502		5
217	UV excited gas sensing SnO2-ZnO aerogels to ppb-level ethanol detection. <b>2021</b> , 337, 129815		7
216	A facile approach to prepare anhydrous MgCO3 and its effect on the mechanical and flame retardant properties of PVC composites. <b>2021</b> , 138, 51349		0
215	Piezoelectric composite of BaTiO3-coated SnO2 microsphere: Li-ion battery anode with enhanced electrochemical performance based on accelerated Li+ mobility. <b>2021</b> , 870, 159267		3
214	Process time variation and critical growth onset analysis for nanofoam formation in sucrose-based hydrothermal carbonization. <b>2021</b> , 56, 15004-15011		0
213	Photoluminescence carbon nano dots for the conductivity based optical sensing of dopamine and bioimaging applications. <b>2021</b> , 117, 111120		13
212	Use of biochar to reduce mercury accumulation in Oryza sativa L: A trial for sustainable management of historically polluted farmlands. <b>2021</b> , 153, 106527		36
211	Boosting CO Hydrogenation Performance of Facile Organics Modified Iron Oxide/Reduced Graphene Oxide Catalysts. 1		
<b>21</b> 0	High-temperature and freeze-thaw aged biochar impacts on sulfonamide sorption and mobility in soil. <b>2021</b> , 276, 130106		8
209	Orange peels-derived hydrochar for chemical sensing applications. <b>2021</b> , 341, 130016		3
208	Impact of hydrofluoric acid treatment on the composition, electrical conductivity, and structure of carbonized metalorganic frameworks.		
207	Electrospun deposited Mn2O3/GO nanofiber composite electrode for hybrid coin cell supercapacitor devices. 1		
206	One-pot synthesis of glucose-derived carbonaceous material with high hydrophilicity and adsorption capacity as bilirubin adsorbent. <b>2021</b> , 56, 18006-18018		0
205	Influence of Reaction Conditions on Hydrothermal Carbonization of Fructose. <b>2021</b> , 14, 5271-5282		2
204	Mesoporous carbon spheres produced by hydrothermal carbonization from rice husk: Optimization, characterization and hydrogen storage. <b>2021</b> ,		1
203	Oriented thermal etching of hollow carbon spheres with delicate heat management for efficient solar steam generation. <b>2021</b> , 178, 121579		3
202	Gd3+ doped BiVO4 and visible light-emitting diodes (LED) for photocatalytic decomposition of bisphenol A, bisphenol S and bisphenol AF in water. <i>Journal of Environmental Chemical Engineering</i> , <b>2021</b> , 9, 105842	6.8	2
201	High capacitance for asymmetric supercapacitors based on one-step synthetic nanoflowers/nanocones arrays as cathode and pomelo peel as anode. <b>2021</b> , 302, 122428		1

## (2010-2021)

200	Upcycling simulated food wastes into superactivated hydrochar for remarkable hydrogen storage.  Journal of Analytical and Applied Pyrolysis, 2021, 159, 105322	1
199	Improving the reduction and sensing capability of Fe3O4 towards 4-nitrophenol by coupling with ZnO/Fe0/Fe3C/graphitic carbon using ZnFe-LDH@carbon as a template. <b>2021</b> , 139343	1
198	Macroscopic rods from assembled colloidal particles of hydrothermally carbonized glucose and their use as templates for silicon carbide and tricopper silicide. <b>2021</b> , 602, 480-489	2
197	Valorization of hydrothermal carbonization products by anaerobic digestion: Inhibitor identification, biomethanization potential and process intensification. <b>2021</b> , 341, 125752	2
196	The sustainable, one-pot and high-yield synthesis of ultrafine carbonaceous nanospheres with high anionic separation efficiency. <b>2022</b> , 571, 151249	О
195	A sandwich sensor based on imprinted polymers and aptamers for highly specific double recognition of viruses. <b>2021</b> , 146, 3924-3932	3
194	The development of biomass-derived carbon-based photocatalysts for the visible-light-driven photodegradation of pollutants: a comprehensive review <b>2021</b> , 11, 30574-30596	3
193	Metal oxide-doped activated carbons from bakery waste and coffee grounds for application in supercapacitors. <b>2021</b> , 4, 69-80	6
192	Hydrophilic Multitemplate Molecularly Imprinted Biopolymers Based on a Green Synthesis Strategy for Determination of B-Family Vitamins. <b>2018</b> , 10, 4140-4150	120
191	Carbon Materials From Various Sources for Composite Materials. <b>2020</b> , 3-33	1
191 190	Carbon Materials From Various Sources for Composite Materials. 2020, 3-33  Enhanced ferrate(VI) oxidation of micropollutants in water by carbonaceous materials: Elucidating surface functionality. Chemical Engineering Journal, 2020, 398, 125607	29
	Enhanced ferrate(VI) oxidation of micropollutants in water by carbonaceous materials: Elucidating	
190	Enhanced ferrate(VI) oxidation of micropollutants in water by carbonaceous materials: Elucidating surface functionality. <i>Chemical Engineering Journal</i> , <b>2020</b> , 398, 125607  Impact of hydrothermal carbonization conditions on the formation of hydrochars and secondary	29
190	Enhanced ferrate(VI) oxidation of micropollutants in water by carbonaceous materials: Elucidating surface functionality. <i>Chemical Engineering Journal</i> , <b>2020</b> , 398, 125607  Impact of hydrothermal carbonization conditions on the formation of hydrochars and secondary chars from the organic fraction of municipal solid waste. <i>Fuel</i> , <b>2018</b> , 233, 257-268  Hydrochars production, characterization and application for wastewater treatment: A review. <b>2020</b> ,	29
190 189 188	Enhanced ferrate(VI) oxidation of micropollutants in water by carbonaceous materials: Elucidating surface functionality. <i>Chemical Engineering Journal</i> , <b>2020</b> , 398, 125607  Impact of hydrothermal carbonization conditions on the formation of hydrochars and secondary chars from the organic fraction of municipal solid waste. <i>Fuel</i> , <b>2018</b> , 233, 257-268  Hydrochars production, characterization and application for wastewater treatment: A review. <b>2020</b> , 127, 109882	29 125 65
190 189 188	Enhanced ferrate(VI) oxidation of micropollutants in water by carbonaceous materials: Elucidating surface functionality. <i>Chemical Engineering Journal</i> , <b>2020</b> , 398, 125607 14-7  Impact of hydrothermal carbonization conditions on the formation of hydrochars and secondary chars from the organic fraction of municipal solid waste. <i>Fuel</i> , <b>2018</b> , 233, 257-268 7.1  Hydrochars production, characterization and application for wastewater treatment: A review. <b>2020</b> , 127, 109882  CHAPTER 5:Hydrothermal Carbonisation (HTC): History, State-of-the-Art and Chemistry. <b>2015</b> , 129-155	<ul><li>29</li><li>125</li><li>65</li><li>5</li></ul>
190 189 188 187 186	Enhanced ferrate(VI) oxidation of micropollutants in water by carbonaceous materials: Elucidating surface functionality. Chemical Engineering Journal, 2020, 398, 125607  Impact of hydrothermal carbonization conditions on the formation of hydrochars and secondary chars from the organic fraction of municipal solid waste. Fuel, 2018, 233, 257-268  Hydrochars production, characterization and application for wastewater treatment: A review. 2020, 127, 109882  CHAPTER 5:Hydrothermal Carbonisation (HTC): History, State-of-the-Art and Chemistry. 2015, 129-155  CHAPTER 6:Porous Hydrothermal Carbon Materials, Nanoparticles, Hybrids and Composites. 2015, 156-190	<ul> <li>29</li> <li>125</li> <li>65</li> <li>5</li> <li>2</li> </ul>

182	Production of carbonaceous microspheres from wood sawdust by a novel hydrothermal carbonization and extraction method. <b>2017</b> , 7, 42123-42128		6
181	Tuning the Photocatalytic Activity and Optical Properties of Mesoporous TiO2 Spheres by a Carbon Scaffold. <b>2013</b> , 2013, 1-9		6
180	Hydrothermal carbonization of glucose in saline solution: sequestration of nutrients on carbonaceous materials. <b>2016</b> , 4, 173-189		10
179	Conversion of Wood Waste into Solid Biofuel Using Catalytic HTC Process. <b>2014</b> , 10, 12-18		3
178	Fabrication of complex, 3D, branched hollow carbonaceous structures and their applications for supercapacitors. <b>2021</b> ,		2
177	River driftwood pretreated via hydrothermal carbonization as a sustainable source of hard carbon for Na-ion battery anodes. <i>Journal of Environmental Chemical Engineering</i> , <b>2021</b> , 9, 106604	6.8	1
176	Harnessing energy from the waste produced in Bangladesh: evaluating potential technologies. <b>2021</b> , 7, e08221		3
175	High mass load of oxygen-enriched microporous hollow carbon spheres as electrode for supercapacitor with solar charging station application. <b>2021</b> , 608, 1514-1525		4
174	Dense (non-hollow) carbon nanospheres: synthesis and electrochemical energy applications. <b>2021</b> , 16, 100147		1
173	Role of Gallic Acid in the Synthesis of Carbon-Encapsulated Iron Nanoparticles by Hydrothermal Carbonization: Selecting Iron Oxide Composition. <b>2021</b> , 6, 29547-29554		O
172	Large-Scale Preparation of Peanut-Bran-Derived Carbon Dots and Their Promoting Effect on Italian Lettuce.		2
171	The effect of temperature on structure and permittivity of carbon microspheres as efficient absorbent prepared by facile and large-scale method. <b>2021</b> , 185, 650-659		3
170	Effects of hydrothermal carbonization on products from fast pyrolysis of cellulose. <b>2021</b> , 99, 299-306		1
169	Organic waste as a biomass resource. <b>2013</b> , 109-133		
168	Review of Biomass Conversion in High Pressure High Temperature Water (HHW) Including Recent Experimental Results (Isomerization and Carbonization). <b>2014</b> , 249-274		1
167	The Characteristics of the Biochar with the Synthetic Food Waste and Wood Waste for Soil Contaminated with Heavy Metals. <b>2014</b> , 19, 1-7		2
166	Surface Chemistry of Green Carbons. <b>2014</b> , 1-33		1
165	Encyclopedia of Sustainability Science and Technology. <b>2018</b> , 1-28		

Nanocatalysis for Green Chemistry. **2019**, 83-109

163	Atk lignosellbzik biyoktleden hidrotermal karbon letimi ve karakterizasyonu.		O
162	Evolution of Physicochemical Structure of Waste Cotton Fiber (Hydrochar) During Hydrothermal Carbonation. <b>2020</b> , 20, 319-326		1
161	Comprehensive utilization of agricultural wastes by combined wet torrefaction and pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2021</b> , 160, 105358	6	O
160	Influence of framework Al distribution in HZSM-5 channels on catalytic performance in the methanol to propylene reaction. <b>2021</b> , 118422		1
159	Hydrothermal carbonization and Liquefaction: differences, progress, challenges, and opportunities. <b>2022</b> , 343, 126084		15
158	Reaction kinetics for the hydrothermal carbonisation of cellulose in a two-phase pathway. <i>Fuel</i> , <b>2022</b> , 309, 122169	7.1	О
157	Characterization of Hydrochar Produced by Hydrothermal Carbonization of Organic Sludge. <b>2020</b> , 6,		2
156	Pyrolysis of sucrose-derived hydrochar. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2022</b> , 161, 105404	6	1
155	A review on the utilization of industrial biowaste via hydrothermal carbonization. <b>2022</b> , 154, 111877		4
154	Hydrothermal Carbonization as Sustainable Process for the Complete Upgrading of Orange Peel Waste into Value-Added Chemicals and Bio-Carbon Materials. <b>2021</b> , 11, 10983		2
153	A multi-component reaction kinetics model for the hydrothermal liquefaction of carbohydrates and co-liquefaction to produce 5-ethoxymethyl furfural. <i>Fuel</i> , <b>2021</b> , 311, 122499	7.1	1
152	Enhanced Breaking of Lignin and Mesopore Formation in Zinc Chloride Assisted Hydrothermal Carbonization of Waste Biomasses. <b>2021</b> , 7, 77		1
151	Chemical Reaction: Understanding the Key to the Formation of Carbonaceous Materials from Sucralose. <b>2021</b> , 6, 11846-11855		
150	False biosignatures on Mars: anticipating ambiguity. jgs2021-050		3
149	Characterization of hydrochar and process water formed by hydrothermal carbonization of waste wood containing ureaformaldehyde resin. 1		
148	Confirmation of Pore Formation Mechanisms in Biochars and Activated Carbons by Dual Isotherm Analysis.		
147	A comprehensive review on recent advances toward sequestration of levofloxacin antibiotic from wastewater <b>2021</b> , 813, 152529		5

146	Recent advances of carbon-based nano zero valent iron for heavy metals remediation in soil and water: A critical review <b>2021</b> , 426, 127993		10
145	Hydrothermal carbonization and slow pyrolysis as two thermal techniques for the production of carbon rich, added-value materials using olive milling byproduct: Quid optimus?. <b>2020</b> ,		
144	Co-Hydrothermal Carbonization of Corn Stover and Food Waste: Characterization of Hydrochar, Synergistic Effects and Combustion Characteristic Analysis.		
143	Epitaxial ZnCoS Nanodendritics Grown Along 3-D Carbonaceous Scaffolds for High-Performance Hybrid Supercapacitors.		
142	Synthesis of carbon microspheres via hydrothermal carbonization of Sabal palms (Sabal palmetto) biomass for adsorption of methylene blue. 1		1
141	Modulating the porosity of carbons for improved adsorption of hydrogen, carbon dioxide, and methane: a review.		1
140	Hydrothermal Processing of Lignocellulosic Biomass to Biofuels. <b>2022</b> , 95-112		
139	Nano-sized hematite-assembled carbon spheres for effectively adsorbing paracetamol in water: Important role of iron <b>2022</b> , 1-10		O
138	Hydrothermal Carbonization of Waste Sugarcane Bagasse for the Effective Removal of Emerging Contaminants from Aqueous Solution. <b>2022</b> , 2022, 1-13		0
137	Influence of boron doping on characteristics of glucose based hydrothermal carbons. 2022, 1-1		
136	Sustainable hydrophilic ultrasmall carbonaceous spheres modified by click reaction for high-performance polymeric ion chromatographic stationary phase <b>2021</b> , 1663, 462762		
135	Fe3O4-carbon spheres core-shell supported palladium nanoparticles: A robust and recyclable catalyst for suzuki coupling reaction. <b>2022</b> ,		1
134	Comparative study on the characteristics of hydrothermal products from lignocellulosic wastes. Journal of Analytical and Applied Pyrolysis, 2022, 161, 105408	6	2
133	Features of the Synthesis of Functional Carbon Materials from Plant Carbohydrates. <b>2022</b> , 57, 871		O
132	The Sustainable Materials Roadmap.		1
131	Study of chemical, kinetic, and theoretical sorption properties of activated carbons obtained from agroindustrial origin: comparison of anionic and cationic model molecules. 1		O
130	From biomass to hydrochar: Evolution on elemental composition, morphology, and chemical structure. <b>2022</b> , 101, 194-200		0
129	Hydrothermal pretreatment of cotton textile wastes: Biofuel characteristics and biochar electrocatalytic performance. <i>Fuel</i> , <b>2022</b> , 316, 123327	7.1	2

128	Nitrogen-doped hydrochars from shrimp waste as visible-light photocatalysts: Roles of nitrogen species <b>2022</b> , 208, 112695	О
127	A novel lignin-based hierarchical porous carbon for efficient and selective removal of Cr(VI) from wastewater <b>2022</b> , 204, 310-320	1
126	Recent advancement of biomass-derived porous carbon based materials for energy and environmental remediation applications. <b>2022</b> , 10, 6965-7005	5
125	Process Optimization for Preparation of Hydrochar with Abundant Surface Functional Groups and Promising Adsorption Capacity. <b>2022</b> , 14, 86-97	1
124	Plant-Based Protein Films and Coatings. <b>2022</b> , 271-311	
123	Confirmation of pore formation mechanisms in biochars and activated carbons by dual isotherm analysis.	1
122	Exploring Molecular Moieties on Carbonized Polymer Dots from Flavonoid Glycosides with Activity Against Enterovirus A71.	
121	Liquefiable Biomass-Derived Porous Carbons and their Applications in CO2 Capture and Conversion.	Ο
120	Interaction mechanism between cellulose and hemicellulose during the hydrothermal carbonization of lignocellulosic biomass.	О
119	Identification of Crucial Intermediates in the Formation of Humins from Cellulose-Derived Platform Chemicals Under Brfisted Acid Catalyzed Reaction Conditions <b>2022</b> ,	1
118	BIOCHAR PRODUCTION AND AMENDMENT. <b>2022</b> , 259-296	
117	Blue hydrochars formed on hydrothermal carbonization of glucose using an iron catalyst. <b>2022</b> , 100172	O
116	One-pot hydrothermal synthesis of fluorescent carbon quantum dots with tunable emission color for application in electroluminescence detection of dopamine. <b>2022</b> , 100141	
115	Biomass-Modified Zirconium-Based Catalyst for One-Pot Reductive Etherification of Bioderived Aldehydes to Furanic Diether.	2
114	Production of activated carbon with tunable porosity and surface chemistry via chemical activation of hydrochar with phosphoric acid under oxidizing atmosphere. <b>2022</b> , 30, 101849	1
113	Forming mechanism of coke microparticles from polymerization of aqueous organics during hydrothermal carbonization process of biomass. <b>2022</b> , 192, 50-60	1
112	Microplastic degradation in sewage sludge by hydrothermal carbonization: Efficiency and mechanisms <b>2022</b> , 134203	1
111	Epitaxial ZnCoS nanodendritics grown along 3-D carbonaceous scaffolds for high-performance hybrid supercapacitors. <b>2022</b> , 905, 164250	1

110	Exploring molecular moieties on carbonized polymer dots from flavonoid glycosides with activity against enterovirus A71. <b>2022</b> , 192, 285-294	1
109	Preparation of rice husk hydrochar as an atrazine adsorbent: Optimization, characterization, and adsorption mechanisms. <i>Journal of Environmental Chemical Engineering</i> , <b>2022</b> , 10, 107575	1
108	Advances in understanding the humins: Formation , prevention and application. 2022, 10, 100062	O
107	Investigations on Structural, Electronic and Optical Properties of MoS2/CDs Heterostructure via First-Principles Study. <b>2022</b> , 12, 456	1
106	Amyloid-Based Carbon Aerogels for Water Purification.	
105	Significant Solar Thermal Conversion Properties of Ethylene Glycol Nanofluids Enhanced by Carbon Chain Nanostructures.	
104	A Comparison of Functional Fillers Greenhouse Gas Emissions and Air Pollutants from Lignin-Based Filler, Carbon Black and Silica. <b>2022</b> , 14, 5393	1
103	Morphological Control of Biochar with Emerging Functionalities by Thermodynamic and Kinetic Approaches.	2
102	Oxygen-rich microporous carbons with exceptionally high adsorption of iodine. <b>2022</b> , 285, 126193	O
101	State-of-the-art developments in carbon quantum dots (CQDs): Photo-catalysis, bio-imaging, and bio-sensing applications <b>2022</b> , 302, 134815	5
100	Hydrothermal Treatment of Residual Forest Wood (Softwood) and Digestate from Anaerobic Digestion[hfluence of Temperature and Holding Time on the Characteristics of the Solid and Liquid Products. <b>2022</b> , 15, 3738	
99	Mechanistic insights into the effect of feed concentration on product formation during acid-catalyzed conversion of glucose in ethanol.	1
98	Recycle of Si Slurry Kerf Waste as High Performance Anode Materials for Lithium-Ion Batteries.	О
97	Line Patterns and Fractured Coatings in Deposited Colloidal Hydrochar on Glass Substrates after Evaporation of Water. <b>2022</b> , 6, 36	
96	Evaluation of Process Parameters on Treated Banana Peel Bioadsorbent for Heavy Metals Removal. <b>2022</b> , 2266, 012005	
95	Dendrimer-functionalized hydrothermal nanosized carbonaceous spheres as superior anion exchangers for ion chromatographic separation. <b>2022</b> , 189,	O
94	Competitive effects of glucand main hydrolysates on biochar formation: a combined experiment and density functional theory analysis. <b>2022</b> , 127427	О
93	Salt template synthesis of hierarchical porous carbon adsorbents for Congo red removal. <b>2022</b> , 648, 129278	O

92	Thermal-dissolution based carbon enrichment/treatment of biomass: Modeling and kinetic study via combined lumped reaction model and machine learning algorithm. <i>Fuel</i> , <b>2022</b> , 324, 124701	7.1	0
91	Recent Status and Challenges in Multifunctional Electrocatalysis Based on 2D MXenes.		2
90	Boron-doped Carbon Dots with Surface Oxygen Functional Groups as a Highly Sensitive and Label-free Photoluminescence Probe for the Enhanced Detection of Mg 2+ Ions. <b>2022</b> , 7,		
89	Decoupled temperature and pressure hydrothermal synthesis of carbon sub-micron spheres from cellulose. <b>2022</b> , 13,		3
88	Amyloid-based carbon aerogels for water purification. Chemical Engineering Journal, 2022, 137703	14.7	1
87	Evolution of kraft lignin during hydrothermal treatment under different reaction conditions. <b>2022</b> , 103, 147-153		Ο
86	Thermal processing of biomass for energy and fuel production. 2022,		
85	Bottom-Up Synthesis Strategies Enabling the Investigation of Metal Catalyst-Carbon Support Interactions. <b>2022</b> , 8, 37		
84	Hydrochars produced by hydrothermal carbonisation of seaweed, coconut shell and oak: effect of processing temperature on physicochemical adsorbent characteristics. <b>2022</b> , 4,		2
83	Fe 3 C Decorated N, Fe Co-Doped Hollow Carbon Microspheres as Efficient Air Electrode Catalyst for Zinc-Air Battery. <b>2022</b> , 7,		
82	Integrating anaerobic digestion with hydrothermal pretreatment for bioenergy production: waste valorization of plastic containing food waste and rice husk. <b>2022</b> , 108546		0
81	Development of nanoparticles loaded composites from agricultural wastes for cationic dye removal from aqueous solution- A review. <i>Journal of Environmental Chemical Engineering</i> , <b>2022</b> , 108263	6.8	О
80	Formation and evolution of pectin-derived hydrothermal carbon from pectin. Fuel, 2022, 326, 124997	7.1	0
79	Influence mechanism of aqueous organic components on the hydrochar formation reaction during the biomass hydrothermal carbonization wastewater recycling. <i>Fuel</i> , <b>2022</b> , 326, 125033	7.1	О
78	Hydrothermal carbonization of glucose: Secondary char properties, reaction pathways, and kinetics. <i>Chemical Engineering Journal</i> , <b>2022</b> , 449, 137827	14.7	2
77	Low-temperature hydrothermal carbonization of pectin enabled by high pressure. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2022</b> , 105627	6	1
76	Chicken feather hydrochar incorporated with phenolic extract of Rosa damascena Mill. to enlarge the antibacterial performance against Acinobacter baumannii and Staphylococcus aureus. <i>Journal of Environmental Chemical Engineering</i> , <b>2022</b> , 10, 108289	6.8	1
75	Glycine assists in efficient synthesis of herbal carbon dots with enhanced yield and performance.		

74	Antimony Nanoparticles Encapsulated in Self-Supported Organic Carbon with a Polymer Network for High-Performance Lithium-Ion Batteries Anode. <b>2022</b> , 12, 2322	
73	Production of microalgal-based carbon encapsulated iron nanoparticles (ME-nFe) to remove heavy metals in wastewater.	O
<del>7</del> 2	Uniform and dispersible carbonaceous microspheres as quasi-liquid sorbent. <b>2022</b> , 136079	2
71	Preparation and characterization of the poplar micro-nano cellulose sustainable carbon spheres.	
70	Impact of temperature and residence time on the hydrothermal carbonization of organosolv lignin. <b>2022</b> , 166, 105623	0
69	Hydrothermally prepared sugar-derived carbon spheres for all-solid-state symmetric electrochemical capacitors. <b>2022</b> , 33, 104219	1
68	Co-hydrothermal carbonization of organic solid wastes to hydrochar as potential fuel: A review. <b>2022</b> , 850, 158034	2
67	Biofuel characteristics of chars produced from rapeseed, whitewood, and seaweed via thermal conversion technologies Impacts of feedstocks and process conditions. <b>2022</b> , 238, 107492	O
66	Technical progress and perspective on the thermochemical conversion of kitchen waste and relevant applications: A comprehensive review. <b>2023</b> , 331, 125803	1
65	Facile fabrication of Ag@C@C8 nanoparticles as a SERS substrate and their environmental applications. <b>2022</b> , 147, 4026-4039	O
64	Co-hydrothermal Carbonization of Corn Stover and Food Waste: Characterization of Hydrochar, Synergistic Effects, and Combustion Characteristic Analysis. <b>2022</b> , 108716	0
63	Recent insights in synthesis and energy storage applications of porous carbon derived from biomass waste: A review. <b>2022</b> ,	1
62	Increased chemical stabilities of well-dispersed hydroxyapatite (HAp) powders prepared by calcination of HAp-Etyclodextrin-methylene blue@carbon. 1-7	O
61	Universal Mass Production of Biomass-Derived Nanosized Porous Carbon Spheres as a Superior Nonmetal Catalyst for Aerobic Oxidation of Hydrocarbons.	O
60	Design of biomass-based renewable materials for environmental remediation. 2022,	O
59	Temperature- and pH-Sensitive Nitrogen and Sulfur Codoped Carbon Quantum Dots for Sequential Detection of Fe3+ and H2S. <b>2022</b> , 5, 14507-14519	O
58	Semi-conducting microspheres formed from glucose for semi-active electric field-responsive electrorheological systems.	O
57	Magnetic hydrothermal carbonaceous nanospheres bonded cell membranes as a stable and reusable platform for discovering natural bioactive components. <b>2023</b> , 454, 140238	O

56	Preparation of amorphous carbon membranes synthesized via a glucose-solution hydrothermal method. <b>2022</b> ,	0
55	Activated Carbons Produced from Hydrothermally Carbonized Prickly Pear Seed Waste. <b>2022</b> , 14, 14559	O
54	Bottom-up Hydrothermal Carbonization for the Precise Engineering of Carbon Materials. 2022, 101048	1
53	Hydrochar synthesis of from waste human hair, incorporation with phenolic extract of Morus alba and evaluation as a natural anti-Staphylococcus aureus agent. <b>2022</b> , 105804	O
52	Hydrothermal carbonization of food waste: Effect of leachate on physicochemical and energetic properties of hydrochar. <b>2022</b> , 20, 101276	0
51	Fe0/Fe3C-assisted Fe3O4 redox sites as robust peroxidase mimics for colorimetric detection of H2O2. <b>2023</b> , 377, 133097	O
50	Influence of size and composition on fluorescence from carbonaceous nanoparticles. 2023, 437, 114485	0
49	A sustainably produced hydrochar from pomegranate peels for the purification of textile contaminants in an aqueous medium. <b>2023</b> , 31, 100924	O
48	Highly Efficient Removal of Lead/Cadmium by Phosphoric Acid-Modified Hydrochar Prepared from Fresh Banana Peels: Adsorption Mechanisms and Environmental Application. <b>2022</b> , 38, 15394-15403	1
47	Analysis of Formation Mechanisms of Sugar-Derived Dense Carbons via Hydrogel Carbonization Method. <b>2022</b> , 12, 4090	O
46	Hybrid Hydrothermal Carbonization and Ultrasound Technology on Oil Palm Biomass for Hydrochar Production.	1
45	Density functional theory simulation of heterogeneous polymerization reactions during biomass hydrothermal carbonization.	O
44	Hydrothermal Conversion of Food Waste to Carbonaceous Solid Fuel Review of Recent Developments. <b>2022</b> , 11, 4036	0
43	Carbonization characteristics of co-pyrolysis of sewage sludge and corn stalks and its agricultural benefits.	O
42	Bimetallic Fe-Co Nanoalloy Confined in Porous Carbon Skeleton with Enhanced Peroxidase Mimetic Activity for Multiple Biomarkers Monitoring.	0
41	Breaking the temperature limit of hydrothermal carbonization of lignocellulosic biomass by decoupling temperature and pressure. <b>2023</b> ,	2
40	Direct conversion of glucose to 5-hydroxymethylfurfural over niobium oxide/phosphate-carbon composites derived from hydrothermal carbonization of cyclodextrins. <b>2023</b> , 537, 112931	О
39	Hydrothermal carbonization of sludge: Effect of steam release on products properties and wall sticking phenomenon. <b>2023</b> , 339, 127486	O

38	Changes in Selected Organic and Inorganic Compounds in the Hydrothermal Carbonization Process Liquid While in Storage. <b>2023</b> , 8, 4234-4243	О
37	Background introduction. <b>2023</b> , 1-28	O
36	Tetracycline Removal from Water by Adsorption on Hydrochar and Hydrochar-Derived Activated Carbon: Performance, Mechanism, and Cost Calculation. <b>2023</b> , 15, 4412	O
35	Synthesis and Characterization of Carbon-Based Quantum Dot From Rice, Sugar, and Aloe-Vera. <b>2023</b> , 321-335	O
34	Synthesis and characteristics of carbon-SnO2 composite aerogel via two-step self-assembly approach. <b>2023</b> , 139, 107167	0
33	Utilization of nitrogen, sulfur co-doped porous carbon micron spheres as bifunctional electrocatalysts for electrochemical detection of cadmium, lead and mercury ions and oxygen evolution reaction. <b>2023</b> , 640, 391-404	O
32	Adsorption of volatile organic compounds on activated carbon with included iron phosphate. <b>2023</b> , 11, 100259	О
31	Fabrication of superhydrophilic porous carbon materials through a porogen-free method: Surface and structure modification promoting the two-electron oxygen reduction activity. <b>2023</b> , 639, 333-342	O
30	Evaluation of fuel properties and combustion behaviour of hydrochar derived from hydrothermal carbonisation of agricultural wastes. <b>2023</b> , 108, 101209	0
29	Liquid-solid ratio during hydrothermal carbonization affects hydrochar application potential in soil: Based on characteristics comparison and economic benefit analysis. <b>2023</b> , 335, 117567	О
28	Three-dimensional lignin-based polyporous carbon@polypyrrole for efficient removal of reactive blue 19: A synergistic effect of the N and O groups. <b>2023</b> , 239, 124220	O
27	High fixed carbon and low ash hydrochar production from sewage sludge with addition of phloroglucinol: Theoretical modeling of reaction mechanism using density functional theory. <b>2023</b> , 244, 107703	O
26	Potential of iron-based composites derived from sucrose foam for mercury removal and safe recovery. <b>2023</b> , 345, 128181	0
25	A theoretical study of the functionalized carbon dots surfaces binding with silver nanostructures. <b>2023</b> , 1223, 114087	O
24	Application of carbon coated bentonite composite as an ultra-high temperature filtration reducer in water-based drilling fluid. <b>2023</b> , 375, 121360	О
23	Development and performance analysis of a 316 stainless steel autoclave for facile fabrication of carbon nanoarchitectures derived from natural potato and starch. <b>2023</b> , 23, 3126-3136	O
22	Nanocomposites of nitrogen/zinc-doped carbon dots@ hydrotalcite with highly fluorescent in solid-state for visualization of latent fingerprints. <b>2023</b> , 137, 113530	О
21	Synthesis of Carbon Microspheres from Inedible Crystallized Date Palm Molasses: Influence of Temperature and Reaction Time. <b>2023</b> , 16, 1672	0

20	Applications of Supercritical Water in Waste Treatment and Valorization: A Review. 2023, 16, 2081	О
19	Removal of chromium (VI) and bisphenol A from water using a novel spoilt milk-derived adsorbent: material characterisation and adsorption mechanisms. 1-20	O
18	Study on Doxorubicin Loading on Differently Functionalized Iron Oxide Nanoparticles: Implications for Controlled Drug-Delivery Application. <b>2023</b> , 24, 4480	1
17	Optimization of hydrothermal liquefaction process for bio-oil products from kitchen residue under subcritical conditions. <b>2023</b> ,	O
16	Carbon-Dot-Containing Poly(methyl methacrylate) for Highly Dielectric Nanomaterials. 2023, 6, 3803-3815	O
15	A bibliographic study reviewing the last decade of hydrochar in environmental application: history, status quo, and trending research paths. <b>2023</b> , 5,	O
14	Valorization of Primary Sludge and Biosludge from the Pulp Mill Industry in Uruguay Through Hydrothermal Carbonization.	О
13	Preparation of carbon quantum dots from ionic liquid modified biomass for the detection of Fe3+ and Pd2+ in environmental water. <b>2023</b> , 255, 114795	O
12	Adsorption of methylene blue on activated carbons prepared from penicillin mycelial residues via torrefaction and hydrothermal pretreatment.	О
11	Histamine Recognition by Carbon Dots from Plastic Waste and Development of Cellular Imaging: Experimental and Theoretical Studies.	O
10	Functional Carbon from Nature: Biomass-Derived Carbon Materials and the Recent Progress of Their Applications.	О
9	Carbonization of Carbohydrates in an Atmosphere of Argon and under the Action of Calcium and Iron Chlorides. <b>2022</b> , 56, S48-S54	О
8	Impetus Yield of Acrylic Top Cover Pyramid Solar still due to Furthered Thermal Conductivity of MnO <sub>2</sub> and PANI-MnO <sub>2</sub> Nanocomposite Materials. 1082, 41-52	О
7	Highly-efficient photocatalytic H2O2 evolution using hydrothermal carbons with donor-acceptor furan couples. <b>2023</b> , 332, 122770	O
6	Insights into the chemical structure evolution and carbonisation mechanism of biomass during hydrothermal treatment. <b>2023</b> , 101257	О
5	Spherical mesoporous FeNC catalyst for the air cathode of membrane-less direct formate fuel cells. <b>2023</b> ,	O
4	Structure and Formation Mechanism of Furfural-Derived Humins. 2023, 23-31	О
3	Analytical Methods for Humins Characterization. <b>2023,</b> 101-130	Ο

2 Structure and Formation Mechanism of 5-Hydroxymethylfurfural (HMF)-Derived Humins. 2023, 7-21

Ο

Structure and Formation Mechanism of Glucose-Derived Humins. 2023, 33-55

Ο