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Raman microspectroscopy of soot and related carbonaceous materials: Spectral analysis and structural information

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2103	Easy preparation of carbon sheets with controlled microstructures from sucrose/layered superabsorbent polymer hydrogels. <i>Carbon</i> , <b>2011</b> , 49, 357-363	1	5	
2102	Growth of carbon nanospheres through a building block assembly method at 300°C. <i>Carbon</i> , <b>2011</b> , 49, 275-279	1	9	
2101	A comparison of soot nanostructure obtained using two high resolution transmission electron microscopy image analysis algorithms. <i>Carbon</i> , <b>2011</b> , 49, 4256-4268	1	84	

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2098	Investigation into the evolution of char structure using Raman spectroscopy in conjunction with coal petrography; Part 1. <b>2011</b> , 92, 750-756	81
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1921	New Method of Quantitative Determination of the Carbon Source in Blast Furnace Flue Dust. <b>2014</b> , 28, 7235-7242	11

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1917	Electrical Conductivity of SiOCN Ceramics by the Powder-Solution-Composite Technique. <b>2014</b> , 97, 2525-2530	14
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1915	Structural heterogeneity and its influence on the tensile fracture of PAN-based carbon fibers. <b>2014</b> , 4, 60648-60651	23
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1913	Magnetically-separable hierarchically porous carbon monoliths with partially graphitized structures as excellent adsorbents for dyes. <b>2014</b> , 21, 933-938	8
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1906	Structure characteristics and gasification activity of residual carbon from entrained-flow coal gasification slag. <b>2014</b> , 122, 67-75	107
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1904	Thermal stability and decomposition kinetics of styrene-butadiene rubber nanocomposites filled with different particle sized kaolinites. <b>2014</b> , 95, 159-166	27
1903	Effects of radio-frequency power on the properties of carbon thin films prepared by thermal chemical vapor deposition enhanced with remote inductively-coupled-plasma using acetylene/nitrogen mixtures. <b>2014</b> , 570, 356-362	

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1894	The application of inelastic neutron scattering to investigate CO hydrogenation over an iron Fischer Tropsch synthesis catalyst. <b>2014</b> , 312, 221-231	30
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1892	WITHDRAWN: Effect of carbon nanotube incorporation in polyvinyl alcohol on structure and morphology of derived electrospun carbon nanofibers in presence of iodine and cadmium salt. <b>2014</b> ,	
1891	A flame-retardant-free and thermo-cross-linkable copolyester: Flame-retardant and anti-dripping mode of action. <b>2014</b> , 55, 2394-2403	105
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1887	Role of oxygen functionalities on the synthesis of photocatalytically active grapheneIIiO2 composites. <b>2014</b> , 158-159, 329-340	99
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1884	Ordered mesoporous carbon-decorated reduced graphene oxide as efficient counter electrode for dye-sensitized solar cells. <i>Carbon</i> , <b>2014</b> , 77, 18-24	10.4	23
1883	Structural characterization by Raman hyperspectral mapping of organic carbon in the 3.46 billion-year-old Apex chert, Western Australia. <b>2014</b> , 124, 18-33		84
1882	Influences of magmatic intrusion on the macromolecular and pore structures of coal: Evidences from Raman spectroscopy and atomic force microscopy. <b>2014</b> , 119, 191-201		67
1881	Controlled surface functionalization of multiwall carbon nanotubes by HNO3 hydrothermal oxidation. <i>Carbon</i> , <b>2014</b> , 69, 311-326	10.4	78
1880	New insights on electrochemical hydrogen storage in nanoporous carbons by in situ Raman spectroscopy. <i>Carbon</i> , <b>2014</b> , 69, 401-408	10.4	35
1879	Fine structure of Raman spectra in coals of different rank. <b>2014</b> , 121, 37-43		60
1878	RELATIONS BETWEEN ALIPHATICS AND SILICATE COMPONENTS IN 12 STRATOSPHERIC PARTICLES DEDUCED FROM VIBRATIONAL SPECTROSCOPY. <b>2014</b> , 780, 174		12
1877	Heat-induced Internal Strain Relaxation and its Effect on the Microstructure of Polyacrylonitrile-based Carbon Fiber. <b>2014</b> , 30, 1051-1058		13
1876	Mesophase pitch-based carbon fiber spinning through a filter assembly and the microstructure evolution mechanism. <b>2014</b> , 49, 191-198		16
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1874	Simple procedure for an estimation of the coal rank using micro-Raman spectroscopy. <b>2014</b> , 136, 52-58		83
1873	Raman Characterization of Ambient Airborne Soot and Associated Mineral Phases. <b>2014</b> , 48, 13-21		32
1872	Temperature-dependent structure and electrochemical performance of highly nanoporous carbon from potassium biphthalate and magnesium powder via a template carbonization process. <b>2014</b> , 2, 9675	5	19
1871	Optical and electrical characterization of carbon nanoparticles produced in laminar premixed flames. <b>2014</b> , 161, 3201-3210		25
1870	A phosphorus-, nitrogen- and carbon-containing polyelectrolyte complex: preparation,		<b>5</b> 2
	characterization and its flame retardant performance on polypropylene. <b>2014</b> , 4, 48285-48292		52
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1865	An experimental design for the investigation of water repellent property of candle soot particles. <b>2014</b> , 148, 134-142	62
1864	A facile synthesis of a novel mesoporous Ge@C sphere anode with stable and high capacity for lithium ion batteries. <b>2014</b> , 2, 17107-17114	172
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1849	The many faces of soot: characterization of soot nanoparticles produced by engines. <b>2014</b> , 53, 12366-79	24

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1847	Characterization of porous graphitic monoliths from pyrolyzed wood. <b>2014</b> , 49, 7688-7696	35
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1844	Sputtered Si-containing low-friction carbon coatings for elevated temperatures. <b>2014</b> , 77, 15-23	25
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1842	Internally mixed multicomponent soot: Impact of different salts on soot structure and thermo-chemical properties. <b>2014</b> , 70, 26-35	27
1841	Effect of pyrolysis temperature on the electric conductivity of polymer-derived silicoboron carbonitride. <b>2014</b> , 34, 2163-2167	41
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1834	In situ one-step synthesis of hierarchical nitrogen-doped porous carbon for high-performance supercapacitors. <b>2014</b> , 6, 7214-22	262
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1829	Preparation of Palladium Catalysts Supported on Carbon Nanotubes by an Electrostatic Adsorption Method. <b>2014</b> , 6, 2600-2606	32
1828	Insights into the composition and sources of rural, urban and roadside carbonaceous PMII <b>2014</b> , 48, 8995-9003	21
1827	Low-cost, acid/alkaline-resistant, and fluorine-free superhydrophobic fabric coating from onionlike carbon microspheres converted from waste polyethylene terephthalate. <b>2014</b> , 48, 2928-33	39
1826	Structure and electrochemical performance of highly nanoporous carbons from benzoatelhetal complexes by a template carbonization method for supercapacitor application. <i>Carbon</i> , <b>2014</b> , 72, 410-42 $0^{\circ}$ .	50
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1822	Growth and oxidation of graphitic crystallites in soot particles within a laminar diffusion flame. <b>2014</b> , 128, 148-154	32
1821	Quantitative study on structural evolutions and associated energetics in polysilazane-derived amorphous silicon carbonitride ceramics. <b>2014</b> , 72, 22-31	48
1820	Electrophoretic deposition of carbon nanotubes onto carbon fiber felt for production of carbon/carbon composites with improved mechanical and thermal properties. <b>2014</b> , 104, 105-110	32
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1813	Carbon Corrosion in Proton-Exchange Membrane Fuel Cells: From Model Experiments to Real-Life Operation in Membrane Electrode Assemblies. <b>2014</b> , 4, 2258-2267	146

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1786	Graphitic-Carbon Layers on Oxides: Toward Stable Heterogeneous Catalysts for Biomass Conversion Reactions. <b>2015</b> , 54, 7939-43	56
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1754	Porous graphene-based material as an efficient metal free catalyst for the oxidative dehydrogenation of ethylbenzene to styrene. <b>2015</b> , 51, 3423-5		44
1753	Lithium-air batteries for medium- and large-scale energy storage. <b>2015</b> , 387-440		5
1752	Carbon-coated Li 3 V 2 (PO 4) 3 as insertion type electrode for lithium-ion hybrid electrochemical capacitors: An evaluation of anode and cathodic performance. <b>2015</b> , 281, 310-317		64
1751	Influence of temperature and particle size on the single and mixed atmosphere gasification of biomass char with H 2 O and CO 2. <b>2015</b> , 134, 175-188		50
1750	Microwave synthesis and electrochemical properties of lithium manganese borate as cathode for lithium ion batteries. <b>2015</b> , 282, 95-99		9
1749	The influence of the pyrolysis temperature on the electrochemical behavior of carbon-rich SiCN polymer-derived ceramics as anode materials in lithium-ion batteries. <b>2015</b> , 282, 409-415		23
1748	CO2 assisted synthesis of highly dispersed Co3O4 nanoparticles on mesoporous carbon for lithium ion battery. <b>2015</b> , 633, 65-70		18
1747	Fluidized-bed CVD of unstacked double-layer templated graphene and its application in supercapacitors. <b>2015</b> , 61, 747-755		40
1746	Thermal Cyclodebromination of Polybromopyrroles to Polymer with High Performance for Supercapacitor. <b>2015</b> , 119, 3881-3891		18
1745	Characterization of fine mode atmospheric aerosols by Raman microscopy and diffuse reflectance FTIR. <b>2015</b> , 119, 4524-32		15
1744	A new Cambrian black pigment used during the late Middle Palaeolithic discovered at Scladina Cave (Andenne, Belgium). <b>2015</b> , 55, 253-265		15
1743	Active sites and mechanisms for direct oxidation of benzene to phenol over carbon catalysts. <b>2015</b> , 54, 4105-9		99
1742	A simple CaCO3-assisted template carbonization method for producing nitrogen-containing nanoporous carbon spheres and its electrochemical improvement by the nitridation of azodicarbonamide. <b>2015</b> , 155, 93-102		15
1741	Raman spectroscopy study of the transformation of the carbonaceous skeleton of a polymer-based nanoporous carbon along the thermal annealing pathway. <i>Carbon</i> , <b>2015</b> , 85, 147-158	10.4	101

1740	In situ catalyzed Boudouard reaction of coal char for solid oxide-based carbon fuel cells with improved performance. <b>2015</b> , 141, 200-208	68
1739	The influence of a carbon support on the catalytic properties of Pd/Sibunit and Pd-Ga/Sibunit catalysts for liquid-phase acetylene hydrogenation. <b>2015</b> , 49, 14-19	2
1738	Square ferrite nanorods/carbon composite: synthesis and electromagnetic properties. <b>2015</b> , 119, 773-781	6
1737	Exploration of the catalytically active site structures of animal biomass-modified on cheap carbon nanospheres for oxygen reduction reaction with high activity, stability and methanol-tolerant performance in alkaline medium. <i>Carbon</i> , <b>2015</b> , 85, 279-288	76
1736	Nitrogen-containing nanoporous carbon derived from ethylenediamine tetraacetate magnesium and the electrochemical enhancement by the addition of Mg(OH)2. <b>2015</b> , 19, 795-803	3
1735	In-plane and out-of-plane defects of graphite bombarded by H, D and He investigated by atomic force and Raman microscopies. <b>2015</b> , 46, 256-265	9
1734	Improve electrical conductivity of reduced La2Ni0.9Fe0.1O4+has the anode of a solid oxide fuel cell by carbon deposition. <b>2015</b> , 40, 9783-9789	24
1733	Preparation and characterization of Li3V2(PO4)3 grown on carbon nanofiber as cathode material for lithium-ion batteries. <b>2015</b> , 176, 1358-1363	20
1732	Effect of the flame environment on soot nanostructure inferred by Raman spectroscopy at different excitation wavelengths. <b>2015</b> , 162, 2431-2441	59
1731	Thermogravimetric study on the influence of structural, textural and chemical properties of biomass chars on CO2 gasification reactivity. <b>2015</b> , 88, 703-710	98
1730	Oxidation-derived maturing process of soot, dependent on O2NO2 mixtures and temperatures. <i>Carbon</i> , <b>2015</b> , 93, 1068-1076	24
1729	Evaluation of the possibilities of applying fractal analysis for the characterization of molecular arrangement of carbon deposits in comparison to conventional instrumental methods. <b>2015</b> , 139, 40-48	3
1728	Hydrolysis of Cellobiose over Selective and Stable Sulfonated Activated Carbon Catalysts. <b>2015</b> , 3, 1934-1942	32
1727	Pronounced improvement of supercapacitor capacitance by using redox active electrolyte of p-phenylenediamine. <b>2015</b> , 176, 941-948	28
1726	Efficient conversion of waste polyvinyl chloride into nanoporous carbon incorporated with MnOx exhibiting superior electrochemical performance for supercapacitor application. <b>2015</b> , 176, 197-206	12
1725	Effects of bonding types of carbon fibers with branched polyethyleneimine on the interfacial microstructure and mechanical properties of carbon fiber/epoxy resin composites. <b>2015</b> , 117, 289-297	63
1724	The role of steam treatment on the structure, purity and length distribution of multi-walled carbon nanotubes. <i>Carbon</i> , <b>2015</b> , 93, 1059-1067	26
1723	Base Metal Catalyzed Graphitization of Cellulose: A Combined Raman Spectroscopy, Temperature-Dependent X-ray Diffraction and High-Resolution Transmission Electron Microscopy Study. <b>2015</b> , 119, 10653-10661	97

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1722	nanoparticles. <b>2015</b> , 39, 6593-6601	9
1721	Carbons at the heart of questions on energy and environment: A nanostructural approach. <b>2015</b> , 347, 124-133	25
1720	Carbon nanofibers and nanospheres-supported bimetallic (Co and Fe) catalysts for the Fischer Tropsch synthesis. <b>2015</b> , 138, 455-462	13
1719	Study on the evolution of the char structure during hydrogasification process using Raman spectroscopy. <b>2015</b> , 157, 97-106	58
1718	Semi-carbonized nanostructures of carbohydrate for highly efficient photocatalysts. <b>2015</b> , 5, 58220-58227	1
1717	Microphysical properties of carbonaceous aerosol particles generated by laser ablation of a graphite target. <b>2015</b> , 8, 1207-1215	9
1716	The Importance of Interbands on the Interpretation of the Raman Spectrum of Graphene Oxide. <b>2015</b> , 119, 10123-10129	306
1715	Novel carbon micro fibers and foams from waste printed circuit boards. <b>2015</b> , 134, 473-479	14
1714	Effect of acrylic acid additive on electric conductivity of polymer-derived amorphous silicon carbonitride. <b>2015</b> , 41, 7971-7976	12
1713	Load dependent friction coefficient of crystalline graphite and anomalous behavior of wear dimension. <b>2015</b> , 88, 280-289	11
1712	Spectroscopic ellipsometric and Raman spectroscopic investigations of pulsed laser treated glassy carbon surfaces. <b>2015</b> , 336, 343-348	7
1711	Thiocarbanilide-derived nanoporous carbon materials by a simple template carbonization method: The comparison of Ca(OH)2 and Mg(OH)2 template effects upon pore structures and capacitive behaviors. <b>2015</b> , 744, 8-16	3
1710	Nitrogen doped mesoporous carbon derived from copolymer and supporting cobalt oxide for oxygen reduction reaction in alkaline media. <b>2015</b> , 40, 6072-6084	23
1709	Implications of the 3D micro scale coal characteristics along with Raman stress mapping of the scratch tracks. <b>2015</b> , 141-142, 13-22	21
1708	Second-order Raman spectroscopy of char during gasification. <b>2015</b> , 135, 105-111	20
1707	Synthesis of nanoporous graphene oxide adsorbents by freeze-drying or microwave radiation: Characterization and hydrogen storage properties. <b>2015</b> , 40, 6844-6852	27
1706	A general, eco-friendly synthesis procedure of self-assembled ZnO-based materials with multifunctional properties. <b>2015</b> , 44, 7844-53	13
1705	Mechanism of the Delithiation/Lithiation Process in LiFe0.4Mn0.6PO4: in Situ and ex Situ Investigations on Long-Range and Local Structures. <b>2015</b> , 119, 9016-9024	36

1704	Synthesis and characterization of magnetite/silver/antibiotic nanocomposites for targeted antimicrobial therapy. <b>2015</b> , 55, 343-59	29
1703	Relationships between quality of coals, resulting cokes, and micro-Raman spectral characteristics of these cokes. <b>2015</b> , 144-145, 130-137	39
1702	Synthesis of stable anisotropic carbon particle aggregates covered by surface nano-graphitic sheets. <i>Carbon</i> , <b>2015</b> , 88, 33-41	12
1701	Electrochemical Oxidation of Sulfur Dioxide on Nitrogen-Doped Graphite in Acidic Media. <b>2015</b> , 171, 29-34	7
1700	Multiphase chemistry at the atmosphere-biosphere interface influencing climate and public health in the anthropocene. <b>2015</b> , 115, 4440-75	326
1699	Acid Properties of Nanocarbons and Their Application in Oxidative Dehydrogenation. <b>2015</b> , 5, 3600-3608	49
1698	Characterization of fine particulate matter in ambient air by combining TEM and multiple spectroscopic techniquesNMR, FTIR and Raman spectroscopy. <b>2015</b> , 17, 552-60	12
1697	One-step synthesis of surface passivated carbon microspheres for enhanced photoluminescence and their application in multifunctional magnetic-fluorescent imaging. <b>2015</b> , 5, 24049-24055	2
1696	Facile synthesis of graphene sheets from fluorinated graphite. <b>2015</b> , 5, 40148-40153	17
1695	Mesoporous Siloxane Films Through Thermal Oxidation of Siloxane©arbon Nanocomposites. <b>2015</b> , 17, 1547-1555	5
1694	A generalized ZnCl2 activation method to produce nitrogen-containing nanoporous carbon materials for supercapacitor applications. <b>2015</b> , 636, 275-281	31
1693	Characterization of a zeolite-templated carbon by electrochemical quartz crystal microbalance and in situ Raman spectroscopy. <i>Carbon</i> , <b>2015</b> , 89, 63-73	20
1692	Raman characterization of carbonaceous material in the Macraes orogenic gold deposit and metasedimentary host rocks, New Zealand. <b>2015</b> , 70, 80-95	36
1691	Recycling Polymer-Rich Waste Printed Circuit Boards at High Temperatures: Recovery of Value-Added Carbon Resources. <b>2015</b> , 1, 75-84	24
1690	Lithium intercalation into SiCN/disordered carbon composite. Part 1: influence of initial carbon porosity on cycling performance/capacity. <b>2015</b> , 19, 2763-2769	16
1689	Electromagnetic wave absorption properties of mesoporous Fe3O4/C nanocomposites. <b>2015</b> , 77, 209-214	54
1688	High-performance recyclable VNር catalysts for the direct hydroxylation of benzene to phenol using molecular oxygen. <b>2015</b> , 5, 31965-31971	21
1687	Self-organization of highly ordered honeycomb buckling patterns in crystalline thin films. <b>2015</b> , 54, 105502	1

1686	Synergistic effects of BHDB-IPC with AlPi/MCA on flame retarding TPEE. <b>2015</b> , 5, 87609-87615	7
1685	Conversion of Lignin-Nanofibers to CNFs. <b>2015</b> , 10, 1550092	5
1684	Cyclic voltammogram on ridge/pore array architectured electrode inspired by butterfly-wings. <b>2015</b> , 87, 815-825	2
1683	Crucial Role of Lateral Size for Graphene Oxide in Activating Macrophages and Stimulating Pro-inflammatory Responses in Cells and Animals. <b>2015</b> , 9, 10498-515	267
1682	Multivariate Characterization of a Continuous Soot Monitoring System Based on Raman Spectroscopy. <b>2015</b> , 49, 997-1008	8
1681	Graphitic carbon nanocage modified electrode for highly sensitive and selective detection of dopamine. <b>2015</b> , 5, 82623-82630	5
1680	Structural Evolution from Metal®rganic Framework to Hybrids of Nitrogen-Doped Porous Carbon and Carbon Nanotubes for Enhanced Oxygen Reduction Activity. <b>2015</b> , 27, 7610-7618	181
1679	Comprehensive Investigation of Various Structural Features of Bituminous Coals Using Advanced Analytical Techniques. <b>2015</b> , 29, 7178-7189	94
1678	Graphitic Biocarbon from Metal-Catalyzed Hydrothermal Carbonization of Lignin. <b>2015</b> , 54, 10731-10739	75
1677	Effect of Ar+ ion irradiation on the microstructure of pyrolytic carbon. <b>2015</b> , 117, 115101	7
1676	Morphology, composition, and structure of carbon deposits from diesel and biomass oil/diesel blends on a pintle-type fuel injector nozzle. <b>2015</b> , 91, 189-196	13
1675	Laser-induced versus shock wave induced transformation of highly ordered pyrolytic graphite. <b>2015</b> , 106, 161902	16
1674	Synthesis and high-temperature evolution of polysilylcarbodiimide-derived SiCN ceramic coatings. <b>2015</b> , 35, 3771-3780	22
1673	MnO2 nanowires anchored on amine functionalized graphite nanosheets: highly active and reusable catalyst for organic oxidation reactions. <b>2015</b> , 5, 92585-92595	12
1672	Polyacrylamide-derived carbon materials: outstanding enhancement of supercapacitor capacitance simply by introducing redox additive of p-aminobenzenesulfonate into KOH electrolyte. <b>2015</b> , 5, 87571-87579	2
1671	Oxygen- and Nitrogen-Enriched 3D Porous Carbon for Supercapacitors of High Volumetric Capacity. <b>2015</b> , 7, 24622-8	125
1670	Mechanisms and Performances of Na1.5Fe0.5Ti1.5(PO4)3/C Composite as Electrode Material for Na-Ion Batteries. <b>2015</b> , 119, 25220-25234	24
1669	Polyvinylidene Fluoride-Based Carbon Supercapacitors: Notable Capacitive Improvement of Nanoporous Carbon by the Redox Additive Electrolyte of 4-(4-Nitrophenylazo)-1-naphthol. <b>2015</b> , 54, 9948-9955	8

1668	Nitrogen and sulfur doped mesoporous carbon as metal-free electrocatalysts for the in situ production of hydrogen peroxide. <i>Carbon</i> , <b>2015</b> , 95, 949-963	10.4	188	
1667	Zinc citrate-based nanoporous carbon materials: Large capacitive enhancement using redox active electrolyte of p -phenylenediamine. <b>2015</b> , 651, 414-422		12	
1666	Fluidized bed chemical vapor deposition of pyrolytic carbon-III. Relationship between microstructure and mechanical properties. <i>Carbon</i> , <b>2015</b> , 91, 346-357	10.4	25	
1665	Progress toward the Quantitative Analysis of PAHs Adsorbed on Soot by Laser Desorption/Laser Ionization/Time-of-Flight Mass Spectrometry. <b>2015</b> , 49, 10510-20		28	
1664	Reduced graphene oxide grafted by the polymer of polybromopyrroles for nanocomposites with superior performance for supercapacitors. <b>2015</b> , 3, 21257-21268		39	
1663	Role of zinc oxide and carbonaceous nanomaterials in non-fullerene-based polymer bulk heterojunction solar cells for improved cost-to-performance ratio. <b>2015</b> , 3, 22227-22238		11	
1662	Effect of aluminum doping on carbon loaded Na3V2(PO4)3 as cathode material for sodium-ion batteries. <b>2015</b> , 180, 824-830		96	
1661	A reevaluation of the correlation between the synthesis parameters and structure and properties of nitrogen-doped carbon nanotubes. <b>2015</b> , 24, 407-415		14	
1660	TOWARD THE FORMATION OF CARBONACEOUS REFRACTORY MATTER IN HIGH TEMPERATURE HYDROCARBON-RICH ATMOSPHERES OF EXOPLANETS UPON MICROMETEOROID IMPACT. <b>2015</b> , 805, 76		20	
1659	Nitrogen-modified carbon nanostructures derived from metal-organic frameworks as high performance anodes for Li-ion batteries. <b>2015</b> , 180, 852-857		31	
1658	Tailored Fe3C-derived carbons with embedded Fe nanoparticles for ammonia adsorption. <i>Carbon</i> , <b>2015</b> , 95, 208-219	10.4	10	
1657	A RaMM study of thermal maturity of dispersed organic matter in marine source rocks. <b>2015</b> , 150-151, 252-264		27	
1656	Physicochemical evolution of nascent soot particles in a laminar premixed flame: from nucleation to early growth. <b>2015</b> , 162, 3854-3863		67	
1655	Effect of the reaction time on the microstructure and porous texture of carbon materials obtained by chlorination of Ti(C5H5)Cl2. <b>2015</b> , 166, 233-240		2	
1654	Synthesis and characterization of porous, mixed phase, wrinkled, few layer graphene like nanocarbon from charcoal. <b>2015</b> , 89, 2438-2442		17	
1653	Influence of synthesis pH and oxidative strength of the catalyzing acid on the morphology and chemical structure of hydrothermal carbon. <b>2015</b> , 16, 579-87		42	
1652	Composite-alumina-carbon molecular sieve membranes prepared from novolac resin and boehmite. Part II: Effect of the carbonization temperature on the gas permeation properties. <b>2015</b> , 40, 3485-3496		41	
1651	Structural evolutions in polymer-derived carbon-rich amorphous silicon carbide. <b>2015</b> , 119, 552-8		18	

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1650	Effect of catalytic graphitization on the electrochemical behavior of wood derived carbons for use in supercapacitors. <b>2015</b> , 278, 18-26	81
1649	Raman microspectroscopy characterization of carbon blacks: Spectral analysis and structural information. <i>Carbon</i> , <b>2015</b> , 84, 479-490	257
1648	Anisotrpic friction behavior of charcoal and the influence of humidity. <b>2015</b> , 84, 110-117	1
1647	Catalytic performance of different carbon materials for hydrogen production in sulfurlodine thermochemical cycle. <b>2015</b> , 166-167, 413-422	19
1646	Controlling porosity in lignin-derived nanoporous carbon for supercapacitor applications. <b>2015</b> , 8, 428-32	157
1645	Hierarchically porous graphitic carbon monoliths containing nickel nanoparticles as magnetically separable adsorbents for dyes. <b>2015</b> , 132, n/a-n/a	4
1644	Cometary dust in Antarctic ice and snow: Past and present chondritic porous micrometeorites preserved on the Earth's surface. <b>2015</b> , 410, 1-11	63
1643	Raman and thermal desorption spectroscopy analyses of amorphous graphite-like carbon films with incorporated xenon. <b>2015</b> , 112, 17-24	11
1642	Nitration and reduction route to surface groups of mesoporous carbons obtained from sucrose and phloroglucinol/formaldehyde precursors. <b>2015</b> , 149-150, 539-552	7
1641	The use of heterogeneous chemistry for the characterization of functional groups at the gas/particle interface of soot from a diesel engine at a particular running condition. <b>2015</b> , 22, 4863-72	6
1640	Magnetic Carbon Nanofiber Networks as Support for Ionic Liquid Based Catalyst. <b>2015</b> , 145, 505-510	4
1639	Low temperature growth of catalyst-free carbon micro-trees. <b>2015</b> , 50, 13-20	4
1638	On the oxidation degree of few-layer graphene oxide sheets obtained from chemically oxidized multiwall carbon nanotubes. <i>Carbon</i> , <b>2015</b> , 81, 405-417	45
1637	Friction anisotropy in boronated graphite. <b>2015</b> , 324, 443-454	6
1636	Nickel nanoparticles embedded in partially graphitic porous carbon fabricated by direct carbonization of nickel-organic framework for high-performance supercapacitors. <b>2015</b> , 274, 1055-1062	68
1635	Highly fluorescent carbon dots as nanoprobes for sensitive and selective determination of 4-nitrophenol in surface waters. <b>2015</b> , 182, 51-59	69
1634	Carbon as a fuel for efficient electricity generation in carbon solid oxide fuel cells. <b>2016</b> , 10, 00116	1
1633	Electrochemical Li Storage Properties of Carbon-Rich BCN Ceramics. 2016, 2, 9	4

1632	Electrochemical performance of polypyrrole derived porous activated carbon-based symmetric supercapacitors in various electrolytes. <b>2016</b> , 6, 68141-68149		29
1631	High-Performance Na3V2(PO4)3/C Cathode for Sodium-Ion Batteries Prepared by a Ball-Milling-Assisted Method. <b>2016</b> , 2016, 3212-3218		33
1630	Structural Design of Polymer-Derived SiOC Ceramic Aerogels for High-Rate Li Ion Storage Applications. <b>2016</b> , 99, 2977-2983		34
1629	Comparison of the tribology performance of nano-diesel soot and graphite particles as lubricant additives. <b>2016</b> , 49, 045304		19
1628	Nitrogen-Doped Nanoporous Carbons through Direct Carbonization of a Metal-Biomolecule Framework for Supercapacitor. <b>2016</b> , 34, 203-209		5
1627	Characterization of particulate matter in attic and settled dusts collected from two buildings in Budapest, Hungary. <b>2016</b> , 416, 239-252		2
1626	Characterizing the age of ancient Egyptian manuscripts through micro-Raman spectroscopy. <b>2016</b> , 47, 1185-1193		14
1625	Ordered mesoporous carbon preparation by the in situ radical polymerization of acrylamide and its application for resorcinol removal. <b>2016</b> , 133, n/a-n/a		18
1624	Traditional earth-abundant coal as new energy materials to catalyze the oxygen reduction reaction in alkaline solution. <b>2016</b> , 211, 568-575		17
1623	Vanadium-Ion Redox Reactions in a Three-Dimensional Network of Reduced Graphite Oxide. <b>2016</b> , 3, 650-657		16
1622	A comprehensive analysis of various structural parameters of Indian coals with the aid of advanced analytical tools. <b>2016</b> , 3, 123-132		35
1621	Enhanced electrical conductivity of suspended carbon nanofibers: Effect of hollow structure and improved graphitization. <i>Carbon</i> , <b>2016</b> , 108, 135-145	10.4	22
1620	Stability studies of polypyrole- derived carbon based symmetric supercapacitor via potentiostatic floating test. <b>2016</b> , 213, 107-114		45
1619	Experimental investigation into the oxidation reactivity and nanostructure of particulate matter from diesel engine fuelled with diesel/polyoxymethylene dimethyl ethers blends. <b>2016</b> , 6, 37611		24
1618	Disentangling the Photocatalytic Hydrogen Evolution Mechanism of One Homogeneous Cobalt-Coordinated Polymer. <b>2016</b> , 120, 28456-28462		10
1617	Analysis of Soot Emissions from the Combustion of Diesel Blended with Biodiesel Toward Mitigating Environmental Pollution. <b>2016</b> ,		
1616	Pressure-sensitive adhesive composites with a hydrophobic form of graphene oxide for enhanced thermal conductivity. <b>2016</b> , 24, 1070-1076		11
1615	Effect of Microwave Treatment on the Reactivity of Synthetic Coal Char for NO Reduction. <b>2016</b> , 30, 10679-10685		5

1614	Bean-dreg-derived carbon materials used as superior anode material for lithium-ion batteries. <b>2016</b> , 222, 551-560		46	
1613	Properties of mesoporous carbon modified carbon felt for anode of all-vanadium redox flow battery. <b>2016</b> , 59, 1037-1050		13	
1612	Reduction of hole doping of chemical vapor deposition grown graphene by photoresist selection and thermal treatment. <b>2016</b> , 27, 505205		12	
1611	Au-NiCo2O4 supported on three-dimensional hierarchical porous graphene-like material for highly effective oxygen evolution reaction. <b>2016</b> , 6, 23398		55	
1610	The study of modified carbon black by Raman spectroscopy method. 2016,			
1609	Properties of the granular nanocomposite pyrocarbon matrix. <b>2016</b> ,		1	
1608	Carbon-coated mesoporous LiTi 2 (PO 4) 3 nanocrystals with superior performance for lithium-ion batteries. <b>2016</b> , 200, 66-74		29	
1607	Thermal conductivity of Fe graphitized wood derived carbon. <b>2016</b> , 99, 528-534		28	
1606	Carbon-embedded mesoporous Nb-doped TiO2 nanofibers as catalyst support for the oxygen reduction reaction in PEM fuel cells. <b>2016</b> , 4, 6540-6552		14	
1605	Micro-oxidation treatment to improve bonding strength of Sr and Na co-substituted hydroxyapatite coatings for carbon/carbon composites. <b>2016</b> , 378, 136-141		21	
1604	A Raman [HRTEM study of the carbonization of wood: A new Raman-based paleothermometer dedicated to archaeometry. <i>Carbon</i> , <b>2016</b> , 102, 319-329	10.4	52	
1603	Simply incorporating an efficient redox additive into KOH electrolyte for largely improving electrochemical performances. <b>2016</b> , 770, 62-72		12	
1602	Progress in the Raman spectra analysis of covalently functionalized multiwalled carbon nanotubes: unraveling disorder in graphitic materials. <b>2016</b> , 18, 12784-96		179	
1601	Spectroscopic tracking of mechanochemical reactivity and modification of a hydrothermal char. <b>2016</b> , 6, 12021-12031		13	
1600	Three-Tier Hierarchical Clusters of Carbon-Coated Li4Ti5O12 Single Crystals as High-Power and High-Energy Anodes for Lithium-Ion Batteries. <b>2016</b> , 3, 91-97		9	
1599	Enhanced high-rate performance of manganese substituted Na 3 V 2 (PO 4 ) 3 /C as cathode for sodium-ion batteries. <b>2016</b> , 313, 73-80		99	
1598	Nanoscale relationships between uranium and carbonaceous material in alteration halos around unconformity-related uranium deposits of the Kiggavik camp, Paleoproterozoic Thelon Basin, Nunavut, Canada. <b>2016</b> , 79, 382-391		12	
1597	Amorphous, turbostratic and crystalline carbon membranes with hydrogen selectivity. <i>Carbon</i> , <b>2016</b> , 106, 93-105	10.4	64	

1596	Reverse osmosis nanocomposite membranes containing graphene oxides coated by tannic acid with chlorine-tolerant and antimicrobial properties. <b>2016</b> , 514, 25-34	109
1595	Magnetically separated and N, S co-doped mesoporous carbon microspheres for the removal of mercury ions. <b>2016</b> , 27, 795-800	24
1594	Visible and near-infrared up-conversion luminescence of KGd(WO4)2 micro-crystals doped with Er3+, Tm3+, Ho3+ and Yb3+ ions. <b>2016</b> , 684, 271-281	21
1593	Dual-doped mesoporous carbon synthesized by a novel nanocasting method with superior catalytic activity for oxygen reduction. <b>2016</b> , 26, 131-138	57
1592	Soft-template construction of three-dimensionally ordered inverse opal structure from Li2FeSiO4/C composite nanofibers for high-rate lithium-ion batteries. <b>2016</b> , 8, 12202-14	37
1591	Correlations between physicochemical properties of emitted diesel particulate matter and its reactivity. <b>2016</b> , 167, 39-51	46
1590	Polybromopyrrole-derived nitrogen-containing polymer dots: Synthesis, optical properties, and insight into their fluorescence quenching by aromatic compounds. <b>2016</b> , 232, 722-731	12
1589	Highly porous activated carbons prepared from carbon rich Mongolian anthracite by direct NaOH activation. <b>2016</b> , 379, 331-337	57
1588	Combined Operando X-ray Diffraction/Raman Spectroscopy of Catalytic Solids in the Laboratory: The Co/TiO Fischer-Tropsch Synthesis Catalyst Showcase. <b>2016</b> , 8, 1531-1542	45
1587	Ultra-low-density GNS/CA composite aerogels with ultra-high specific surface for dye removal. <b>2016</b> , 80, 68-76	11
1586	Effects of annealing temperature on characteristics of amorphous nickel carbon thin film alloys deposited on n-type silicon substrates by reactive sputtering. <b>2016</b> , 618, 21-27	8
1585	Nitrogen-containing ultramicroporous carbon nanospheres for high performance supercapacitor electrodes. <b>2016</b> , 205, 132-141	109
1584	Influence on the oxidative potential of a heavy-duty engine particle emission due to selective catalytic reduction system and biodiesel blend. <b>2016</b> , 560-561, 179-85	15
1583	Preparation, Thermal Degradation, and Fire Behaviors of Intumescent Flame Retardant Polypropylene with a Charring Agent Containing Pentaerythritol and Triazine. <b>2016</b> , 55, 5298-5305	50
1582	In Situ Generation of Radical Coke and the Role of Coke-Catalyst Contact on Coke Oxidation. <b>2016</b> , 55, 5271-5278	17
1581	Nanostructural characterizations of graphite waste from French gas-cooled nuclear reactors and links with 14C inventory. <i>Carbon</i> , <b>2016</b> , 105, 77-89	7
1580	Controlled synthesis of nanocrystalline glass-like carbon thin films with tuneable electrical and optical properties. <b>2016</b> , 299, 8-14	10
1579	Surface properties and graphitization of polyacrylonitrile based fiber electrodes affecting the negative half-cell reaction in vanadium redox flow batteries. <b>2016</b> , 321, 210-218	57

1578	Effect of hydrogen and carbon dioxide on the performance of methane fueled solid oxide fuel cell. <b>2016</b> , 41, 7453-7463		9
1577	Influence of waste cooking oil biodiesel on oxidation reactivity and nanostructure of particulate matter from diesel engine. <b>2016</b> , 181, 389-395		51
1576	Vibrational spectroscopy assessment of kerogen maturity in organic-rich source rocks. <b>2016</b> , 87, 14-19		20
1575	Polyacrylonitrile-based precursors and carbon fibers derived from advanced RAFT technology and conventional methods IThe 1st comparative study. <b>2016</b> , 9, 22-29		19
1574	The effect of heat treatment on the microstructure and diffusion of silver in pyrolytic carbon coatings. <i>Carbon</i> , <b>2016</b> , 109, 542-551	0.4	3
1573	Vanadium (V) reduction reaction on modified glassy carbon electrodes lRole of oxygen functionalities and microstructure. <i>Carbon</i> , <b>2016</b> , 109, 472-478	0.4	24
1572	Formation and Oxidation/Gasification of Carbonaceous Deposits: A Review. <b>2016</b> , 55, 9760-9818		59
1571	Far-and mid-infrared properties of carbon layers elaborated by plasma sputtering. <b>2016</b> , 390, 1002-1008		
1570	Nitrogen Doped Carbon with Metal as Electrocatalysts for the Oxygen Reduction Reaction. <b>2016</b> , 163, F1373-F1379		11
1569	Influence of sulfur in fuel on the properties of diffusion flame soot. <b>2016</b> , 142, 383-392		15
1568	Effect of metal ions on the steam gasification performance of demineralized Shengli lignite char. <b>2016</b> , 41, 22837-22845		36
1567	Electrochemical Properties of an Atomically Dispersed Platinum Catalyst Formed on a Heat-treated Carbon Support. <b>2016</b> , 1, 3189-3196		3
1566	Adsorption-enhanced hydrolysis of glucan oligomers into glucose over sulfonated three-dimensionally ordered mesoporous carbon catalysts. <b>2016</b> , 18, 6637-6647		21
1565	Electrically conductive epoxy-polyester-graphite nanocomposites modified with aromatic amines. <b>2016</b> , 104, 49-60		10
1564	Pyrolysis of biomass in a batch fluidized bed reactor: Effect of the pyrolysis conditions and the nature of the biomass on the physicochemical properties and the reactivity of char. <b>2016</b> , 122, 511-523		59
1563	Phosphorus and Nitrogen-Containing Polyols: Synergistic Effect on the Thermal Property and Flame Retardancy of Rigid Polyurethane Foam Composites. <b>2016</b> , 55, 10813-10822		112
1562	Raman characteristics of PM emitted by a diesel engine equipped with a NTP reactor. <b>2016</b> , 185, 289-297		34
1561	Effects of K and Ca on reforming of model tar compounds with pyrolysis biochars under H2O or CO2. <b>2016</b> , 306, 422-432		123

1560	Towards flexible binderless anodes: silicon/carbon fabrics via double-nozzle electrospinning. <b>2016</b> , 52, 11398-11401	42
1559	Raman analysis of Gothic wall paintings in the apse of the Santiago ApBtol church in AlcazarB. <b>2016</b> , 22, 1061-1065	8
1558	Electroactive polymer/graphene oxide nanostructured composites; evidence for direct chemical interactions between PEDOT and GOx. <b>2016</b> , 220, 334-346	21
1557	Effect of char structures caused by varying the amount of FeCl3 on the pore development during activation. <b>2016</b> , 6, 87478-87485	20
1556	Ultrasound and microwave-assisted preparation of Fe-activated carbon as an effective low-cost adsorbent for dyes wastewater treatment. <b>2016</b> , 6, 78936-78946	30
1555	The synthesis of large area graphene/carbon nanotubes as additive material and their enhanced specific capacitance. <b>2016</b> , 27, 9624-9633	3
1554	Na3V2(PO4)3/C Nanorods with Improved Electrode-Electrolyte Interface As Cathode Material for Sodium-Ion Batteries. <b>2016</b> , 8, 23151-9	68
1553	Nitrogen and oxygen co-doped carbon nanofibers with rich sub-nanoscale pores as self-supported electrode material of high-performance supercapacitors. <b>2016</b> , 222, 1445-1454	19
1552	Nitrogen-doped carbon nanotubes as efficient catalysts for isobutane dehydrogenation. <b>2016</b> , 6, 8562-8570	13
1551	Effects of a nanoceria fuel additive on the physicochemical properties of diesel exhaust particles. <b>2016</b> , 18, 1333-1342	8
1550	Free-Surfactant Synthesis of Graphene-Layered Carbon Composite and Its Utilization for Electrocatalysis. <b>2016</b> , 89, 892-898	9
1549	N-doped interconnected carbon sheets for energy storage application. <b>2016</b> , 84, 350-354	3
1548	Soft-contact conductive carbon enabling depolarization of LiFePO4 cathodes to enhance both capacity and rate performances of lithium ion batteries. <b>2016</b> , 331, 232-239	38
1547	Effects of methyl group on aromatic hydrocarbons on the nanostructures and oxidative reactivity of combustion-generated soot. <b>2016</b> , 172, 1-12	53
1546	Interstratification of graphene-like carbon layers within black talc from Southeastern China: Implications to sedimentary talc formation. <b>2016</b> , 101, 1668-1678	4
1545	The evolution of coal char structure under the oxy-fuel combustion containing high H 2 O. <b>2016</b> , 152, 294-302	23
1544	Inhibitory effect of MnCr2O4 spinel coating on coke formation during light naphtha thermal cracking. <b>2016</b> , 6, 68934-68941	21
1543	Nitrogen-doped carbon materials derived from acetonitrile and Mg-Co-Al layered double hydroxides as electrocatalysts for oxygen reduction reaction. <b>2016</b> , 212, 47-58	8

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1524	Tectonothermal history of an exhumed thrust-sheet-top basin: An example from the south Pyrenean thrust belt. <b>2016</b> , 35, 1280-1313	42
1523	A Sustainable Route from Biomass Byproduct Okara to High Content Nitrogen-Doped Carbon Sheets for Efficient Sodium Ion Batteries. <b>2016</b> , 28, 539-45	331
1522	Hydrophilic Fe3O4@C for High-『Capacity Adsorption of 2,4-Dichloro『phenol. <b>2016</b> , 2016, 890-896	13
1521	Forced deactivation and postmortem characterization of a metallic microchannel reactor employed for the preferential oxidation of CO (PROX). <b>2016</b> , 302, 650-662	13
1520	The role of interlayer adhesion in graphene oxide upon its reinforcement of nanocomposites. <b>2016</b> , 374, 20150283	18
1519	Novel DOPO-based epoxy curing agents. <b>2016</b> , 126, 1339-1348	23
1518	Raman spectroscopic study of natural nanostructured carbon materials: shungitevs. anthraxolite. <b>2016</b> , 28, 545-554	15
1517	Single-step flame synthesis of carbon nanoparticles with tunable structure and chemical reactivity. <b>2016</b> , 6, 61620-61629	16
1516	Biomass char gasification by H2O, CO2 and their mixture: Evolution of chemical, textural and structural properties of the chars. <b>2016</b> , 112, 133-145	97
1515	The effect of iron catalyzed graphitization on the textural properties of carbonized cellulose: Magnetically separable graphitic carbon bodies for catalysis and remediation. <i>Carbon</i> , <b>2016</b> , 107, 248-26 $0^{\circ.4}$	59
1514	Evaluating Raman spectra of carbonaceous matter by automated, iterative curve-fitting. <b>2016</b> , 160-161, 51-62	63
1513	In situ Raman microspectroscopic analysis of soot samples with different organic carbon content: Structural changes during heating. <i>Carbon</i> , <b>2016</b> , 105, 572-585	54
1512	The colloidal tool-box approach for fuel cell catalysts: utilizing graphitized carbon supports. <b>2016</b> , 197, 221-227	2
1511	Influence of key parameters on the response of a resistive soot sensor. <b>2016</b> , 236, 1036-1043	16
1510	An investigation on the effect of KMnO4 on the pore characteristics of pistachio nut shell based activated carbon. <b>2016</b> , 230, 39-48	22
1509	Wrinkled graphene: synthesis and characterization of few layer graphene-like nanocarbons from kerosene. <b>2016</b> , 34, 330-336	12
1508	Graphene Oxide-Assisted Synthesis of Pt-Co Alloy Nanocrystals with High-Index Facets and Enhanced Electrocatalytic Properties. <b>2016</b> , 12, 524-33	71
1507	The Raman-Derived Carbonization Continuum: A Tool to Select the Best Preserved Molecular Structures in Archean Kerogens. <b>2016</b> , 16, 407-17	30

1506	Novel Microstructured SiCNO Films Based on Polyvinylsilazane-Swelled F127 Micelles. <b>2016</b> , 99, 723-726	2
1505	A poly-(styrene-acrylonitrile) copolymer-derived hierarchical architecture in electrode materials for lithium-ion batteries. <b>2016</b> , 4, 11481-11490	7
1504	Impact of rail pressure and biodiesel fueling on the particulate morphology and soot nanostructures from a common-rail turbocharged direct injection diesel engine. <b>2016</b> , 17, 193-208	27
1503	Improving of understanding of beta-hexachlorocyclohexane (HCH) adsorption on activated carbons by temperature-programmed desorption studies. <b>2016</b> , 23, 128-38	1
1502	Fabrication of K-promoted iron/carbon nanotubes composite catalysts for the Fischer Tropsch synthesis of lower olefins. <b>2016</b> , 25, 311-317	47
1501	A novel three-dimensional manganese dioxide electrode for high performance supercapacitors. <b>2016</b> , 308, 141-148	26
1500	Electrochemical study of a novel high performance supercapacitor based on MnO2/nitrogen-doped graphene nanocomposite. <b>2016</b> , 366, 552-560	144
1499	Oxidation-resistant graphitic surface nanostructure of carbon black developed by ethanol thermal decomposition. <b>2016</b> , 65, 26-31	12
1498	Structural analysis of char by Raman spectroscopy: Improving band assignments through computational calculations from first principles. <i>Carbon</i> , <b>2016</b> , 100, 678-692	182
1497	Thermal reduction of graphene oxide mixed with hard carbon and their high performance as lithium ion battery anode. <i>Carbon</i> , <b>2016</b> , 100, 600-607	49
1496	Synthesis and characterization of polyaniline Be@C magnetic nanocomposite powder. 2016, 374, 213-221	13
1495	Synthesis of large-area graphene improved with TiO2 for a novel photonic response by the ultrasonic method via CVD. <b>2016</b> , 24, 108-115	2
1494	Iron-Doped Carbon Nitride-Type Polymers as Homogeneous Organocatalysts for Visible Light-Driven Hydrogen Evolution. <b>2016</b> , 8, 617-24	114
1493	Quantification of nano-scale carbon structure by HRTEM and lattice fringe analysis. <b>2016</b> , 76, 90-97	29
1492	Electric conductivity and microstructure evolution of polymer-derived SiAlCO ceramics. <b>2016</b> , 42, 4033-4038	18
1491	Developing carbon-nitride nanosheets for mode-locking ytterbium fiber lasers. <b>2016</b> , 41, 1221-4	19
1490	Structure and chemistry of crankcase and exhaust soot extracted from diesel engines. <i>Carbon</i> , <b>2016</b> , 103, 327-338	36
1489	Bifunctional Catalyst of CoreBhell Nanoparticles Socketed on Oxygen-Deficient Layered Perovskite for Soot Combustion: In Situ Observation of Synergistic Dual Active Sites. <b>2016</b> , 6, 2710-2714	54

1488	Carbon fibers prepared from ionic liquid-derived cellulose precursors. <b>2016</b> , 7, 1-10	31
1487	Silica-templated ordered mesoporous carbon thin films as electrodes for micro-capacitors. <b>2016</b> , 4, 4570-457	79 36
1486	The hydropyrolysis (HyPy) release of hydrocarbon products from a high maturity kerogen associated with an orogenic Au deposit and their relationship to the mineral matrix. <b>2016</b> , 425, 127-144	10
1485	Preparation and characterization of porous carbon from expanded graphite for high energy density supercapacitor in aqueous electrolyte. <b>2016</b> , 309, 245-253	70
1484	Influence of Engine Age on Morphology and Chemistry of Diesel Soot Extracted from Crankcase Oil. <b>2016</b> , 30, 2276-2284	17
1483	Nanoscale characterization of aircraft soot: A high-resolution transmission electron microscopy, Raman spectroscopy, X-ray photoelectron and near-edge X-ray absorption spectroscopy study.  Carbon, 2016, 101, 86-100	- 79
1482	Reactivity and structure of soot generated at varying biofuel content and engine operating parameters. <b>2016</b> , 163, 157-169	65
1481	Nitrogen-doped nanoporous carbon materials derived from folic acid: Simply introducing redox additive of p-phenylenediamine into KOH electrolyte for greatly improving the supercapacitor performance. <b>2016</b> , 764, 45-55	14
1480	Pyrolytic Temperature Dependent and Ash Catalyzed Formation of Sludge Char with Ultra-High Adsorption to 1-Naphthol. <b>2016</b> , 50, 2602-9	62
1479	Effect of heat treatment on microstructure and thermal conductivity of carbon/carbonflopper composites. <b>2016</b> , 122, 1	1
1478	Phenylmaleimide-containing PET-based copolyester: cross-linking from 2D+ Dcycloaddition toward flame retardance and anti-dripping. <b>2016</b> , 7, 2698-2708	42
1477	Molecular Characterization of the Gas-Particle Interface of Soot Sampled from a Diesel Engine Using a Titration Method. <b>2016</b> , 50, 2946-55	11
1476	Multifunctional photocatalytic performances of recyclable Pd-NiFe 2 O 4 /reduced graphene oxide nanocomposites via different co-catalyst strategy. <b>2016</b> , 190, 1-11	56
1475	A mysterious black ornamentation on an Early Bronze Age dagger from Schoolbek (Kosel), Schleswig-Holstein, Germany. <b>2016</b> , 5, 407-421	1
1474	In-situ growth of LiMnPO4 on porous LiAlO2 nanoplates substrates from AAO synthesized by hydrothermal reaction with improved electrochemical performance. <b>2016</b> , 193, 16-23	14
1473	Hierarchical carbon-coated acanthosphere-like Li4Ti5O12 microspheres for high-power lithium-ion batteries. <b>2016</b> , 314, 18-27	48
1472	Effect of potassium on a model soot combustion: Raman and HRTEM evidences. <b>2016</b> , 50, 405-415	11
1471	Deformation Mechanisms and Macromolecular Structure Response of Anthracite under Different Stress. <b>2016</b> ,	13

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1470	Fabrication of large-sized high density bulk isotropic pyrocarbon materials of a special composite microstructure by fixed-bed chemical vapor deposition. <i>Carbon</i> , <b>2016</b> , 101, 439-448	6
1469	Pd-doped Urchin-like MnO2-carbon Sphere Three-dimensional (3D) Material for Oxygen Evolution Reaction. <b>2016</b> , 196, 661-669	27
1468	Raman spectroscopic investigation of tannin-furanic rigid foams. <b>2016</b> , 84, 58-66	18
1467	Effect of injection strategy on smoothness, emissions and soot characteristics of PCCI-conventional diesel mode transition. <b>2016</b> , 93, 1033-1042	37
1466	Interpenetrating Framework with Three-Dimensionally Ordered Macroporous Carbon Substrates and Well-Dispersed Co3O4Nanocrystals for Supercapacitor. <b>2016</b> , 163, A417-A426	13
1465	Diamond formation through metastable liquid carbon. <b>2016</b> , 62, 42-48	1
1464	Modification of the carbide microstructure by N- and S-functionalization of the support in MoxC/CNT catalysts. <b>2016</b> , 6, 3468-3475	9
1463	Facilely Fabricating Multifunctional N-Enriched Carbon. <b>2016</b> , 8, 1252-63	15
1462	Fourier transform infrared and Raman spectroscopy studies on magnetite/Ag/antibiotic nanocomposites. <b>2016</b> , 364, 400-409	26
1461	Reconciliation of carbon oxidation rates and activation energies based on changing nanostructure. <i>Carbon</i> , <b>2016</b> , 98, 545-556	42
1460	Oxygen breaks into carbon nanotubes and abstracts hydrogen from propane. <i>Carbon</i> , <b>2016</b> , 96, 631-640 <sub>10.4</sub>	34
1459	Development of a cheap and accessible carbon fibers-in-poly(ether ether ketone) tube with high stability for online in-tube solid-phase microextraction. <b>2016</b> , 148, 313-20	31
1458	Characterization of natural carbon particles formed at low temperature UHP conditions. <b>2016</b> , 61, 76-90	2
1457	The enhancement of the catalytic performance of CrOx/Al2O3 catalysts for ethylbenzene dehydrogenation through tailored coke deposition. <b>2016</b> , 6, 1120-1133	13
1456	On the structural composition and stability of FeNC catalysts prepared by an intermediate acid leaching. <b>2016</b> , 20, 969-981	33
1455	One-pot synthesis of tin-borophosphate-carbon composites as anode materials for Li-ion batteries. <b>2016</b> , 233, 52-57	5
1454	Biomass-derived binderless fibrous carbon electrodes for ultrafast energy storage. <b>2016</b> , 18, 1506-1515	84
1453	Removal of Pb(II) from water by the activated carbon modified by nitric acid under microwave heating. <b>2016</b> , 463, 118-27	131

1452	Negative permittivity behavior in the carbon/silicon nitride composites prepared by impregnation-carbonization approach. <i>Carbon</i> , <b>2016</b> , 96, 678-684	10.4	54
1451	Roles of surface chemistry and structural defects of activated carbons in the oxidative desulfurization of benzothiophenes. <b>2016</b> , 163, 223-231		50
1450	Characterization of char from high temperature fluidized bed coal pyrolysis in complex atmospheres. <b>2016</b> , 25, 59-67		29
1449	Synthesis of porous carbon nanofiber with bamboo-like carbon nanofiber branches by one-step carbonization process. <b>2017</b> , 402, 456-462		15
1448	Nickel Nanoparticles Encapsulated in Few-Layer Nitrogen-Doped Graphene Derived from Metal-Organic Frameworks as Efficient Bifunctional Electrocatalysts for Overall Water Splitting. <b>2017</b> , 29, 1605957		421
1447	Regeneration of diesel particulate filters: Effect of renewable fuels. <b>2017</b> , 104, 30-39		52
1446	An experimental kinetic study on the structural evolution of natural carbonaceous material to graphite. <b>2017</b> , 102, 135-148		12
1445	Controllable Preparation of Holey Graphene and Electrocatalytic Performance for Oxygen Reduction Reaction. <b>2017</b> , 228, 203-213		22
1444	Photoelectric properties of graphene oxide <b>I</b> nO composite nanosheets vertically grown on substrate. <b>2017</b> , 699, 468-478		9
1443	Effect of preparation methods on dispersion stability and electrochemical performance of graphene sheets. <b>2017</b> , 249, 9-14		10
1442	Flexible wire-shaped lithium-sulfur batteries with fibrous cathodes assembled via capillary action. <b>2017</b> , 33, 325-333		54
1441	Carbonaceous biosignatures of diverse chemotrophic microbial communities from chert nodules of the Ediacaran Doushantuo Formation. <b>2017</b> , 290, 184-196		19
1440	Structure characteristics and gasification activity of residual carbon from updraft fixed-bed biomass gasification ash. <b>2017</b> , 136, 108-118		40
1439	A reconsideration of the relationship between structural features and mechanical properties of carbon fibers. <b>2017</b> , 685, 65-70		14
1438	Kinetically driven graphite-like to diamond-like carbon transformation in low temperature laminar diffusion flames. <b>2017</b> , 75, 58-68		20
1437	Improved hydrogen selectivity of Surface Modified Graphite (SMG) membranes: Permeation experiments and characterisation by micro-Raman spectroscopy and XPS. <b>2017</b> , 528, 316-325		4
1436	Improvement of Activated Carbon from Jixi Bituminous Coal by Air Preoxidation. <b>2017</b> , 31, 1406-1415		16
1435	Activated carbons for applications in catalysis: the point of view of a physical-chemist. <b>2017</b> , 28, 29-42		4

1434	Diagenetic thermal evolution of organic matter by Raman spectroscopy. <b>2017</b> , 106, 57-67		89
1433	The microstructures, growth mechanisms and properties of carbon nanowires and nanotubes fabricated at different CVD temperatures. <b>2017</b> , 72, 77-86		12
1432	Effects of Metamorphism and Deformation on the Coal Macromolecular Structure by Laser Raman Spectroscopy. <b>2017</b> , 31, 1136-1146		58
1431	High char yield novolac modified by Si-B-N-C precursor: Thermal stability and structural evolution. <b>2017</b> , 137, 184-196		20
1430	Interconnected three-dimensionally hierarchical heterostructures with homogeneously-dispersed V 2 O 5 nanocrystals and carbon for high performance supercapacitor electrodes. <b>2017</b> , 229, 155-165		23
1429	High-performance Mn3O4/onion-like carbon (OLC) nanohybrid pseudocapacitor: Unravelling the intrinsic properties of OLC against other carbon supports. <i>Carbon</i> , <b>2017</b> , 117, 20-32	10.4	49
1428	Maturity estimation of phytoclasts in strew mounts by micro-Raman spectroscopy. <b>2017</b> , 173, 1-8		33
1427	Characteristics of Soot from Rapid Pyrolysis of Coal and Petroleum Coke. <b>2017</b> , 31, 3759-3767		16
1426	Hierarchical S-doped porous carbon derived from by-product lignin for high-performance supercapacitors. <b>2017</b> , 7, 12089-12097		38
1425	High performance of nitrogen-modified carbon nanotubes for selective oxidation of allyl alcohol. <b>2017</b> , 7, 1279-1283		3
1424	Treasure Na-ion anode from trash coke by adept electrolyte selection. <b>2017</b> , 347, 127-135		30
1423	Detection of increased heating and estimation of coseismic shear stress from Raman spectra of carbonaceous material in pseudotachylytes. <b>2017</b> , 44, 1749		9
1422	Shock-wave processing of C60 in hydrogen. <b>2017</b> , 599, A42		7
1421	A phosphorusBarbon framework over activated carbon supported palladium nanoparticles for the chemoselective hydrogenation of para-chloronitrobenzene. <b>2017</b> , 7, 1581-1589		35
1420	A simple in situ synthesis of magnetic M@CNTs by thermolysis of the hybrid perovskite [TPrA][M(dca)3]. <b>2017</b> , 41, 3124-3133		7
1419	One-step synthesis of nitrogen-doped porous carbon for high performance supercapacitors. <b>2017</b> , 24, 1363-1373		1
1418	Nanoporous graphitic carbon materials: largely elevating the capacitive performance by simple incorporation of redox additive. <b>2017</b> , 21, 591-601		4
1417	Magnetism in pristine and chemically reduced graphene oxide. <b>2017</b> , 121, 043906		39

1416	Nitrogen-doped worm-like graphitized hierarchical porous carbon designed for enhancing area-normalized capacitance of electrical double layer supercapacitors. <i>Carbon</i> , <b>2017</b> , 117, 163-173	10.4	84
1415	Copper loaded on activated carbon as an efficient adsorbent for removal of methylene blue. <b>2017</b> , 7, 14395-14405		80
1414	PDMS/camphor soot composite coating: towards a self-healing and a self-cleaning superhydrophobic surface. <b>2017</b> , 7, 15027-15040		33
1413	Deactivation dynamics of a Ni supported catalyst during the steam reforming of volatiles from waste polyethylene pyrolysis. <b>2017</b> , 209, 554-565		64
1412	Effect of selective oxidation and sulphur/phosphorus-containing compounds on coking behaviour during light naphtha thermal cracking. <b>2017</b> , 95, 1480-1488		4
1411	Carbon Nanotubes Disrupt Iron Homeostasis and Induce Anemia of Inflammation through Inflammatory Pathway as a Secondary Effect Distant to Their Portal-of-Entry. <b>2017</b> , 13, 1603830		20
1410	Induced Rate Performance Enhancement in Off-Stoichiometric Na V (PO) with Potential Applicability as the Cathode for Sodium-Ion Batteries. <b>2017</b> , 23, 7345-7352		24
1409	Highly Flame Retardant Expanded Polystyrene Foams from PhosphorusNitrogenBilicon Synergistic Adhesives. <b>2017</b> , 56, 4649-4658		66
1408	The Effects of sodium and alkalinity on the microcrystalline structure and the steam gasification performance of Shengli lignite. <b>2017</b> , 125, 227-233		13
1407	Conformal carbon layer coating on well-dispersed Si nanoparticles on graphene oxide and the enhanced electrochemical performance. <b>2017</b> , 52, 260-269		13
1406	Impact of Biomass and Main Biomass Components on Coal Reactivity under Oxy-Combustion Conditions Comparison of Physicochemical Char Properties Obtained under N2 and CO2 Atmospheres. <b>2017</b> , 31, 5603-5611		4
1405	Atmospheric pressure MALDI for the noninvasive characterization of carbonaceous ink from Renaissance documents. <b>2017</b> , 409, 3943-3950		1
1404	Biomass-derived mesopore-dominant porous carbons with large specific surface area and high defect density as high performance electrode materials for Li-ion batteries and supercapacitors. <b>2017</b> , 36, 322-330		348
1403	Influence of a magnetic field on the formation of carbon dust particles in very low-pressure high-density plasmas. <b>2017</b> , 50, 155203		14
1402	Solventless CII Coupling of Low Carbon Furanics to High Carbon Fuel Precursors Using an Improved Graphene Oxide Carbocatalyst. <b>2017</b> , 7, 3905-3915		51
1401	Structure and energetics of SiOC and SiOC-modified carbon-bonded carbon fiber composites. <b>2017</b> , 100, 3693-3702		16
1400	Potassium Humate-Derived Nitrogen-Doped Activated Carbons with Narrow Micropore Size Distribution for High-Performance Supercapacitors. <b>2017</b> , 12, 1750040		2
1399	The atomic scale structure of saccharose-based carbons. <b>2017</b> , 97, 1675-1697		6

1398	Ultralight polymer-derived ceramic aerogels with wide bandwidth and effective electromagnetic absorption properties. <b>2017</b> , 37, 3973-3980	36
1397	Biomass Derived Sheet-like Carbon/Palladium Nanocomposite: An Excellent Opportunity for Reduction of Toxic Hexavalent Chromium. <b>2017</b> , 5, 5302-5312	62
1396	High-Performance All-Solid-State LithiumBulfur Batteries Enabled by Amorphous Sulfur-Coated Reduced Graphene Oxide Cathodes. <b>2017</b> , 7, 1602923	241
1395	Impact of biomass addition on organic structure and mineral matter of char during coal-biomass co-gasification under CO 2 atmosphere. <b>2017</b> , 202, 556-562	36
1394	Low-Cost and High-Performance Hard Carbon Anode Materials for Sodium-Ion Batteries. <b>2017</b> , 2, 1687-1695	98
1393	Effect of metal species on the stability of Me-N-C catalysts during accelerated stress tests mimicking the start-up and shut-down conditions. <b>2017</b> , 243, 183-196	46
1392	Morphology and location manipulation of Fe nanoparticles on carbon nanofibers as catalysts for ammonia decomposition to generate hydrogen. <b>2017</b> , 42, 17466-17475	15
1391	Experimental and kinetic studies on co-gasification of petroleum coke and biomass char blends. <b>2017</b> , 131, 27-40	101
1390	In Situ Raman Spectroscopy Study on Catalytic Pyrolysis of a Bituminous Coal. <b>2017</b> , 31, 5817-5827	37
1389	Effects of alkali-oxygen oxidation temperature on the structures and combustion properties of Shengli lignite. <b>2017</b> , 7, 19833-19840	12
1388	Nitrogen and Phosphorus Codoped Mesoporous Carbon Derived from Polypyrrole as Superior Metal-Free Electrocatalyst toward the Oxygen Reduction Reaction. <b>2017</b> , 9, 16236-16242	89
1387	Hydrogen production via the glycerol steam reforming reaction over nickel supported on alumina and lanthana-alumina catalysts. <b>2017</b> , 42, 13039-13060	75
1386	Direct exfoliation of graphite in water with addition of ammonia solution. 2017, 503, 68-75	28
1385	New liquid carbon dioxide based strategy for high energy/power density LiFePO4. <b>2017</b> , 36, 398-410	31
1384	Tribofilm formation and characterization of lubricating oils with biofuel soot and inorganic fluorides. <b>2017</b> , 107, 163-172	16
1383	Novel 3D Si/C/SiOC nanocomposites: Toward electrochemically stable lithium storage in silicon. <b>2017</b> , 302, 66-71	6
1382	Iron oxide/porous carbon as a heterogeneous Fenton catalyst for fast decomposition of hydrogen peroxide and efficient removal of methylene blue. <b>2017</b> , 5, 748-755	63
1381	On the effect of carbon content for achieving a high performing Na3V2(PO4)3/C nanocomposite as cathode for sodium-ion batteries. <b>2017</b> , 784, 47-54	40

1380	Freestanding Catalyst Layers: A Novel Electrode Fabrication Technique for PEM Fuel Cells via Electrospinning. <b>2017</b> , 4, 404-411	16
1379	Cu2O@C core/shell nanoparticle as an electrocatalyst for oxygen evolution reaction. <b>2017</b> , 352, 239-245	54
1378	High electrochemical performance of hierarchical porous activated carbon derived from lightweight cork (Quercus suber). <b>2017</b> , 52, 10600-10613	27
1377	Oxidation behavior of co-deposited ZrC modified C/C composites prepared by chemical liquid-vapor infiltration process. <b>2017</b> , 142, 154-163	8
1376	Topography, structure, and formation kinetic mechanism of carbon deposited onto nickel in the temperature range from 400 to 850°C. <b>2017</b> , 24, 574-583	6
1375	Raman spectroscopy of weathered shungites. <b>2017</b> , 48, 1590-1596	5
1374	Sonochemical synthesis of porous nanowall Co3O4/nitrogen-doped reduced graphene oxide as an efficient electrode material for supercapacitors. <b>2017</b> , 28, 14504-14514	8
1373	Microstructures and EMI shielding properties of composite ceramics reinforced with carbon nanowires and nanowires-nanotubes hybrid. <b>2017</b> , 43, 12221-12231	12
1372	Amino-terminated nitrogen-rich layer to improve the interlaminar shear strength between carbon fiber and a thermoplastic matrix. <b>2017</b> , 101, 490-499	43
1371	Thermal decomposition pathways of nitro-functionalized metal-organic frameworks. <b>2017</b> , 53, 7808-7811	11
1370	Nanoscale spectroscopic and mechanical characterization of individual aerosol particles using peak force infrared microscopy. <b>2017</b> , 53, 7397-7400	11
1369	Towards a Higher Comparability of Geothermometric Data Obtained by Raman Spectroscopy of Carbonaceous Material. Part 2: A Revised Geothermometer. <b>2017</b> , 41, 593-612	55
1368	Performance of Different Carbon Electrode Materials: Insights into Stability and Degradation under Real Vanadium Redox Flow Battery Operating Conditions. <b>2017</b> , 164, A1608-A1615	42
1367	Quantitative investigation on the structural characteristics of thermally metamorphosed coal: evidence from multi-spectral analysis technology. <b>2017</b> , 76, 1	6
1366	Effects of butanol isomers additions on soot nanostructure and reactivity in normal and inverse ethylene diffusion flames. <b>2017</b> , 205, 109-129	53
1365	Enhanced catalytic activity of nanoshell carbon co-doped with boron and nitrogen in the oxygen reduction reaction. <b>2017</b> , 42, 15489-15496	26
1364	Organic geochemistry of funginite (Miocene, Eel River, Mendocino County, California, USA) and macrinite (Cretaceous, Inner Mongolia, China). <b>2017</b> , 179, 60-71	4
1363	Investigation of graphene oxide nanogel and carbon nanorods as electrode for electrochemical supercapacitor. <b>2017</b> , 245, 268-278	26

1362	Highly graphitized carbon from non-graphitizable raw material and its formation mechanism based on domain theory. <i>Carbon</i> , <b>2017</b> , 121, 301-308	- 33	
1361	Synthesis of nanocrystallized zirconium carbide based on an aqueous solution-derived precursor. <b>2017</b> , 7, 22722-22727	11	
1360	A novel hyperbranched poly(phosphorodiamidate) with high expansion degree and carbonization efficiency used for improving flame retardancy of APP/PP composites. <b>2017</b> , 142, 29-41	28	
1359	Effects of Beading Parameters for Development of Chitosan-Nano-Activated Carbon Biocomposite for Acetaminophen Elimination from Aqueous Sources. <b>2017</b> , 34, 805-815	6	
1358	An effective approach to preparing partially graphitic activated carbon derived from structurally separated pitch pine biomass. <i>Carbon</i> , <b>2017</b> , 118, 431-437	. 60	
1357	Composite-supported Pt catalyst and electrosprayed cathode catalyst layer for polymer electrolyte membrane fuel cell. <b>2017</b> , 41, 1626-1641	14	
1356	Characterization and adsorption properties of La and Fe modified activated carbon for dye wastewater treatment. <b>2017</b> , 6,	8	
1355	Functionalization of BaTiO3 nanoparticles with electron insulating and conducting organophosphazene-based hybrid materials. <b>2017</b> , 7, 19674-19683	4	
1354	Steamed Zn/ZSM-5 catalysts for improved methanol aromatization with high stability. <b>2017</b> , 162, 66-77	59	
1353	Surface Modification of NaV(PO) by Nitrogen and Sulfur Dual-Doped Carbon Layer with Advanced Sodium Storage Property. <b>2017</b> , 9, 13151-13162	79	
1352	Experimental research of basic properties and reactivity of waste derived chars. 2017, 119, 639-649	15	
1351	Comparative characterization of graphene grown by chemical vapor deposition, transferred to nonconductive substrate, and subjected to Ar ion bombardment using X-ray photoelectron and Raman spectroscopies. <b>2017</b> , 76, 14-20	10	
1350	Controllable bidirectional wettability transition of impregnated graphite by laser treatment and transition mechanism analysis. <b>2017</b> , 317, 95-102	5	
1349	Synthesis and characterization of lignosulfonate-derived hierarchical porous graphitic carbons for electrochemical performances. <b>2017</b> , 247, 184-189	15	
1348	Catalytic Effect of Potassium Compounds in Soot Oxidation. <b>2017</b> , 9, 3513-3525	23	
1347	Gas separation performance of supported carbon molecular sieve membranes based on soluble polybenzimidazole. <b>2017</b> , 533, 1-10	30	
1346	Effect of exhaust gas recirculation (EGR) and multiple injections on diesel soot nano-structure and reactivity. <b>2017</b> , 116, 160-169	34	
1345	Improved Surface Stability of C+MO@NaV(PO) Prepared by Ultrasonic Method as Cathode for Sodium-Ion Batteries. <b>2017</b> , 9, 1471-1478	27	

1344	Effect of torrefaction on the properties of rice straw high temperature pyrolysis char: Pore structure, aromaticity and gasification activity. <b>2017</b> , 228, 241-249		66
1343	An investigation into the surface heterogeneity of nitric acid oxidized carbon fiber. <b>2017</b> , 401, 79-88		47
1342	CoreBhell reduced graphene oxide/MnO @carbon hollow nanospheres for high performance supercapacitor electrodes. <b>2017</b> , 313, 518-526		125
1341	Impacts of oxygenated compounds concentration on sooting propensities and soot oxidative reactivity: Application to Diesel and Biodiesel surrogates. <b>2017</b> , 193, 241-253		47
1340	Evolution of radial heterogeneity in polyacrylonitrile fibres during thermal stabilization: An overview. <b>2017</b> , 136, 20-30		49
1339	Enhanced electric conductivity of polymer-derived SiCN ceramics by microwave post-treatment. <b>2017</b> , 100, 842-847		18
1338	Raman spectroscopy and TEM characterization of solid particulate matter emitted from soot generators and aircraft turbine engines. <b>2017</b> , 51, 518-531		38
1337	A review of biomass burning: Emissions and impacts on air quality, health and climate in China. <b>2017</b> , 579, 1000-1034		551
1336	Oxidation, defunctionalization and catalyst life cycle of carbon nanotubes: a Raman spectroscopy view. <b>2017</b> , 19, 2276-2285		85
1335	Supercapacitor electrode materials with hierarchically structured pores from carbonization of MWCNTs and ZIF-8 composites. <b>2017</b> , 9, 2178-2187		136
1334	The enthalpies of formation of carbon nanomaterials as a key factor for understanding their structural features. <b>2017</b> , 19, 2269-2275		9
1333	Greatly Suppressed Shuttle Effect for Improved Lithium Sulfur Battery Performance through Short Chain Intermediates. <b>2017</b> , 17, 538-543		216
1332	Effect of an Iron Compound Added to Diesel Fuels in Both Soot Reduction Capacity and Soot Oxidation Reactivity. <b>2017</b> , 31, 12455-12465		6
1331	Improvement of structure and electrical conductivity of activated carbon by catalytic graphitization using N2 plasma pretreatment and iron(III) loading. <b>2017</b> , 7, 44632-44638		17
1330	Black manganese-rich crusts on a Gothic cathedral. <b>2017</b> , 171, 205-220		16
1329	Highly electrocatalytic carbon black/copper sulfide composite counter electrodes fabricated by a facile method for quantum-dot-sensitized solar cells. <b>2017</b> , 5, 23146-23157		31
1328	Tailoring platelet carbon nanofibers for high-purity Pyridinic-N doping: A novel method for synthesizing oxygen reduction reaction catalysts. <i>Carbon</i> , <b>2017</b> , 125, 401-408	10.4	38
1327	Oxidation reactivity and nanostructural characterization of the soot coming from farnesane - A novel diesel fuel derived from sugar cane. <i>Carbon</i> , <b>2017</b> , 125, 516-529	10.4	48

1326	Two-Dimensional Carbon Nanosheets for High-Performance Supercapacitors: Large-Scale Synthesis and Codoping with Nitrogen and Phosphorus. <b>2017</b> , 56, 12344-12353		19	
1325	Efficient Edge Plane Exposure on Graphitic Carbon Fiber for Enhanced Flow-Battery Reactions. <b>2017</b> , 121, 24425-24433		14	
1324	Evolution of the Raman Spectrum with the Chemical Composition of Graphene Oxide. <b>2017</b> , 121, 20489	-2049	7 194	
1323	Mussel-inspired modification of carbon fiber via polyethyleneimine/polydopamine co-deposition for the improved interfacial adhesion. <b>2017</b> , 151, 164-173		64	
1322	Reverse Microemulsion Synthesis of Sulfur/Graphene Composite for Lithium/Sulfur Batteries. <b>2017</b> , 11, 9048-9056		64	
1321	Metal-free nitrogen-doped carbon nanoribbons as highly efficient electrocatalysts for oxygen reduction reaction. <i>Carbon</i> , <b>2017</b> , 124, 34-41	10.4	32	
1320	Preparation and characterization of dense graphite/glassy carbon composite coating for sealing application. <b>2017</b> , 4, 095601		3	
1319	Structural analysis of hydrothermal char and its models by density functional theory simulation of vibrational spectroscopy. <i>Carbon</i> , <b>2017</b> , 125, 614-629	10.4	18	
1318	Raman Spectroscopy of Soot Sampled in High-Pressure Diffusion Flames. <b>2017</b> , 31, 10158-10164		25	
1317	Preparation of porous carbons by hydrothermal carbonization and KOH activation of lignite and their performance for electric double layer capacitor. <b>2017</b> , 252, 397-407		68	
1316	Conjugated polymer-mediated synthesis of nitrogen-doped carbon nanoribbons for oxygen reduction reaction. <i>Carbon</i> , <b>2017</b> , 124, 630-636	10.4	35	
1315	Oxidation Reactivity of Char Produced in a Pilot-Scale Blowpipe: Effect of the Heating Rate during Pyrolysis. <b>2017</b> , 31, 10760-10767		7	
1314	Fructose-Derived Hollow Carbon Nanospheres with Ultrathin and Ordered Mesoporous Shells as Cathodes in LithiumBulfur Batteries for Fast Energy Storage. <b>2017</b> , 1, 1700081		24	
1313	Spatial and spectral resolution of carbonaceous material from hematite (FeO) using multivariate curve resolution-alternating least squares (MCR-ALS) with Raman microspectroscopic mapping: implications for the search for life on Mars. <b>2017</b> , 142, 3140-3156		16	
1312	Molybdenum Carbide Modified Nanocarbon Catalysts for Alkane Dehydrogenation Reactions. <b>2017</b> , 7, 5820-5827		42	
1311	Flexible carbon nanofiber mats with improved graphitic structure as scaffolds for efficient all-solid-state supercapacitor. <b>2017</b> , 247, 1060-1071		22	
1310	Evidence and origin of different types of sedimentary organic matter from a Paleoproterozoic orogenic Au deposit. <b>2017</b> , 299, 319-338		13	
1309	Micro-Raman Spectroscopy Study of 32 Kinds of Chinese Coals: Second-Order Raman Spectrum and Its Correlations with Coal Properties. <b>2017</b> , 31, 7884-7893		15	

1308	Deliberation between PM 1 and PM 2.5 as air quality indicators based on comprehensive characterization of urban aerosols in Bangkok, Thailand. <b>2017</b> , 35, 1-9	6
1307	Fabrication and electrochemical properties of a graphene-enhanced hierarchical porous network of Fe3O4/carbon nanobelts. <b>2017</b> , 248, 150-159	14
1306	Formation of hollow carbon nanofibers on bio-char during microwave pyrolysis of palm kernel shell. <b>2017</b> , 148, 583-592	46
1305	Influence of the Annealing Process Parameters in the Production of New Short-Fibre-Reinforced C/C-SIC Composites. <b>2017</b> , 85-96	
1304	Electrochemical corrosion of a glassy carbon electrode. <b>2017</b> , 295, 32-40	232
1303	Effect of surface modification of electrochemically oxidized carbon fibers by grafting hydroxyl and amine functionalized hyperbranched polyurethanes on interlaminar shear strength of epoxy 10.4 composites. <i>Carbon</i> , <b>2017</b> , 123, 233-242	54
1302	Study of coke deposited on a VOx-K2O/EAl2O3 catalyst in the non-oxidative dehydrogenation of isobutane. <b>2017</b> , 545, 1-9	28
1301	Pb(II) ion adsorption by biomass-based carbonaceous fiber modified by the integrated oxidation and vulcanization. <b>2017</b> , 34, 2619-2630	6
1300	Assessment of the impact of post-injection on exhaust pollutants emitted from a diesel engine fueled with biodiesel. <b>2017</b> , 114, 924-933	15
1299	In situ synthesis of ultrathin metal <b>b</b> rganic framework nanosheets: a new method for 2D metal-based nanoporous carbon electrocatalysts. <b>2017</b> , 5, 18610-18617	120
1298	Roles and fates of K and Ca species on biochar structure during in-situ tar H2O reforming over nascent biochar. <b>2017</b> , 42, 21686-21696	43
1297	Sensing carbon allotropes in protective coatings on optical fibers with far- and near-field Raman spectroscopy and microscopy. <b>2017</b> , 48, 1346-1355	5
1296	Cellulose-Derived Carbon Fibers with Improved Carbon Yield and Mechanical Properties. <b>2017</b> , 302, 1700195	27
1295	Active sites of the functionalized coals and carbons for oxygen reduction reaction in a fuel cell. <b>2017</b> , 58, 455-462	2
1294	Studies on properties of rayon- and polyacrylonitrile-based graphite felt electrodes affecting Fe/Cr redox flow battery performance. <b>2017</b> , 248, 603-613	25
1293	Hydrogen and Hydrocarbon Gases, Polycyclic Aromatic Hydrocarbons, and Amorphous Carbon Produced by Multiple Shock Compression of Liquid Benzene up to 27.4 GPa. <b>2017</b> , 121, 6471-6480	7
1292	Potential of an Alumina-Supported Ni3Fe Catalyst in the Methanation of CO2: Impact of Alloy Formation on Activity and Stability. <b>2017</b> , 7, 6802-6814	89
1291	Carbon encapsulated nanoscale iron/iron-carbide/graphite particles for EMI shielding and microwave absorption. <b>2017</b> , 19, 23268-23279	122

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1290	Detrital zircon multi-chronology, provenance, and low-grade metamorphism of the Cretaceous Shimanto accretionary complex, eastern Shikoku, Southwest Japan: Tectonic evolution in response to igneous activity within a subduction zone. <b>2017</b> , 26, e12218	29
1289	The role of surface chemistry in the charge storage properties of graphene oxide. <b>2017</b> , 258, 1228-1243	26
1288	Synergistic Effects between Doped Nitrogen and Phosphorus in Metal-Free Cathode for Zinc-Air Battery from Covalent Organic Frameworks Coated CNT. <b>2017</b> , 9, 44519-44528	48
1287	Raman Spectroscopy of Single Light-Absorbing Carbonaceous Particles Levitated in Air Using an Annular Laser Beam. <b>2017</b> , 89, 12866-12871	16
1286	Carbon Papers and Aerogels Based on Graphene Layers and Chitosan: Direct Preparation from High Surface Area Graphite. <b>2017</b> , 18, 3978-3991	15
1285	Nitrogen and phosphorus co-doped hierarchically porous carbons derived from cattle bones as efficient metal-free electrocatalysts for the oxygen reduction reaction. <b>2017</b> , 5, 24329-24334	74
1284	In-situ steam reforming of biomass tar over sawdust biochar in mild catalytic temperature. <b>2017</b> , 107, 261-270	26
1283	Structural Characterization of Carbon in Blast Furnace Flue Dust and Its Reactivity in Combustion. <b>2017</b> , 31, 8415-8422	10
1282	Flexible and Foldable Fully-Printed Carbon Black Conductive Nanostructures on Paper for High-Performance Electronic, Electrochemical, and Wearable Devices. <b>2017</b> , 9, 24365-24372	74
1281	Active carbons from waste biochars. <b>2017</b> , 130, 15-24	17
1280	Anti-coking Effect of MnCr2O4 Spinel Coating during Light Naphtha Thermal Cracking. <b>2017</b> , 105, 4808-4813	5
1279	Comprehensive Understanding of the Effects of Carbon Nanostructures on Redox Catalytic Properties and Stability in Oxidative Dehydrogenation. <b>2017</b> , 7, 5257-5267	17
1278	Variation of the optical properties of soot as a function of particle mass. <i>Carbon</i> , <b>2017</b> , 124, 201-211 10.4	32
1277	The study of nitrogen inclusion in carbon nanotubes obtained by catalytic laser-induced chemical vapour deposition (C-LCVD). <b>2017</b> , 425, 440-447	6
1276	FTIR and Raman spectroscopy characterization of functional groups in various rank coals. <b>2017</b> , 206, 555-563	279
1276 1275		<sup>279</sup>
	206, 555-563  Size effect of TS-1 supports on the catalytic performance of PtSn/TS-1 catalysts for propane	

1272	Catalytic oxidation of solid carbon and carbon monoxide over cerium-zirconium mixed oxides. <b>2017</b> , 63, 725-738	20
1271	Computed electronic structure of polynuclear aromatic hydrocarbon agglomerates. <b>2017</b> , 36, 957-964	32
<b>127</b> 0	Hierarchical porous nitrogen-doped carbon materials derived from one-step carbonization of polyimide for efficient CO2 adsorption and separation. <b>2017</b> , 24, 583-589	11
1269	Highly electrocatalytic counter electrodes based on carbon black for cobalt(III)/(II)-mediated dye-sensitized solar cells. <b>2017</b> , 5, 240-249	47
1268	Activated carbon derived from tree bark biomass with promising material properties for supercapacitors. <b>2017</b> , 21, 859-872	63
1267	Structural and surface functionality changes in reticulated vitreous carbon produced from poly(furfuryl alcohol) with sodium hydroxide additions. <b>2017</b> , 394, 87-97	13
1266	Functional Analysis of Catalysts for Lower Alkane Oxidation. <b>2017</b> , 9, 573-585	17
1265	Highly ordered spherical SBA-15 catalysts for the removal of contaminants from the oil industry. <b>2017</b> , 318, 189-196	16
1264	Single particle structure characterization of solid-state synthesized Li4Ti5O12. <b>2017</b> , 48, 278-283	5
1263	Scalable Fabrication of Flexible Solid-State Asymmetric Supercapacitors with a Wide Operation Voltage utilizing Printable Carbon Film Electrodes. <b>2017</b> , 5, 656-664	6
1262	One-step synthesis of nitrogen-doped porous carbon for supercapacitors utilizing KNO3 as an electrolyte. <b>2017</b> , 21, 171-181	3
1261	Influence of the carbonization temperature on the mechanical properties of thermoplastic polymer derived C/C-SiC composites. <b>2017</b> , 37, 523-529	26
1260	Three-dimensional activated porous carbon with meso/macropore structures derived from fallen pine cone flowers: A low-cost counter electrode material in dye-sensitized solar cells. <b>2017</b> , 693, 1297-1304	49
1259	Friction Characteristics of Impregnated and Non-Impregnated Graphite against Cemented Carbide under Water Lubrication. <b>2017</b> , 33, 1203-1209	11
1258	Raman spectral characteristics of magmatic-contact metamorphic coals from Huainan Coalfield, China. <b>2017</b> , 171, 31-39	24
1257	Relationships between the optical and Raman behavior of van Hove singularity in twisted bi- and fewlayer graphenes and environmental effects. <i>Carbon</i> , <b>2017</b> , 111, 238-247	8
1256	Preparation and properties of in-situ growth of carbon nanotubes reinforced hydroxyapatite coating for carbon/carbon composites. <b>2017</b> , 70, 805-811	23
1255	Lithium intercalation into disordered carbon/SiCN composite. Part 2: Raman spectroscopy and 7Li MAS NMR investigation of lithium storage sites. <b>2017</b> , 21, 47-55	8

1254	Automated aerosol Raman spectrometer for semi-continuous sampling of atmospheric aerosol. <b>2017</b> , 188, 103-117	25
1253	Impacts of advanced diesel combustion operation on soot nanostructure and reactivity. <b>2017</b> , 18, 532-542	15
1252	Encapsulation of NiO nanoparticles in mesoporous carbon nanospheres for advanced energy storage. <b>2017</b> , 308, 240-247	129
1251	An activated carbon derived from tobacco waste for use as a supercapacitor electrode material. <b>2017</b> , 32, 592-599	57
1250	Differential Raman backscattering cross sections of black carbon nanoparticles. <b>2017</b> , 7, 17124	4
1249	On the Reliability of Sodium Co-Intercalation in Expanded Graphite Prepared by Different Methods as Anodes for Sodium-Ion Batteries. <b>2017</b> , 164, A3804-A3813	33
1248	Structural behavior of coal obtained from Kraft lignin at different carbonizing rates. <b>2017</b> , 4, 11617-11623	4
1247	Experimental approach for identifying building surface materials based on hyperspectral remote sensing imagery. <b>2017</b> , 18, 984-990	7
1246	Determination of Trace Elements in Sintered and Single-Crystal Silicon Carbide by Laser Ablation in Liquid Inductively Coupled Plasma Mass Spectrometry. <b>2017</b> , 33, 537-544	9
1245	RAMAN SPECTROSCOPY OF POLYMER©ARBON NANOMATERIAL COMPOSITES. 2017, 90, 37-59	5
1244	Production and Characterization of Activated Carbon Fiber from Textile PAN Fiber. 2017, 9, 423-430	32
1243	Optical and Analytical Studies on DPF Soot Properties and Consequences for Regeneration Behavior. <b>2017</b> ,	2
1242	A Guide to and Review of the Use of Multiwavelength Raman Spectroscopy for Characterizing Defective Aromatic Carbon Solids: from Graphene to Amorphous Carbons. <b>2017</b> , 7, 153	158
1241	Surface Functional Groups and Graphitization Degree of Soot in the Sooting History of Methane Premixed Flame. <b>2017</b> ,	1
1240	Nanoporous active carbons at ambient conditions: a comparative study using X-ray scattering and diffraction, Raman spectroscopy and N2 adsorption. <b>2017</b> , 848, 012009	8
1239	Analysis of Artificially Matured Shales With Confocal Laser Scanning Raman Microscopy: Applications to Organic Matter Characterization. <b>2017</b> ,	O
1238	Effect of High-Temperature Gas-Chemical Modification on the Structural and Functional Properties of Carbon Black Particles. <b>2017</b> , 90, 1974-1981	3
1237	Hygroscopicity of organic surrogate compounds from biomass burning and their effect on the efflorescence of ammonium sulfate in mixed aerosol particles. <b>2017</b> ,	

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1218	Phosphorus, nitrogen and oxygen co-doped polymer-based core-shell carbon sphere for high-performance hybrid supercapacitors. <b>2018</b> , 270, 339-351	56
1217	On the characteristics and reactivity of soot particles from ethanol-gasoline and 2,5-dimethylfuran-gasoline blends. <b>2018</b> , 222, 42-55	41
1216	Seasonal variation and chemical composition of particulate matter: A study by XPS, ICP-AES and sequential microanalysis using Raman with SEM/EDS. <b>2018</b> , 74, 32-49	23
1215	Study on CO2 Gasification Reactivity and Structure Characteristics of Carbonaceous Materials from the Corex Furnace. <b>2018</b> , 32, 6155-6166	10
1214	Effects of electric current on individual graphene oxide sheets combining in situ transmission electron microscopy and Raman spectroscopy. <b>2018</b> , 29, 285702	5
1213	Graphitization of Miscanthus grass biocarbon enhanced by in situ generated FeCo nanoparticles. <b>2018</b> , 20, 2269-2278	40
1212	Silicalarbon Nanocomposite Acid Catalyst with Large Mesopore Interconnectivity by Vapor-Phase Assisted Hydrothermal Treatment. <b>2018</b> , 6, 7859-7870	9
1211	Evaluation of Cell Performance and Durability for Cathode Catalysts (Platinum Supported on Carbon Blacks or Conducting Ceramic Nanoparticles) During Simulated Fuel Cell Vehicle Operation: Start-Up/Shutdown Cycles and Load Cycles. <b>2018</b> , 53-113	1
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1209	Removal of organic dyes from aqueous solution using waste catalyst-derived adsorbent: Isotherm modeling and kinetic studies. <b>2018</b> , 5, 065603	3
1208	Nitrogen-Functionalized Hydrothermal Carbon Materials by Using Urotropine as the Nitrogen Precursor. <b>2018</b> , 24, 12298-12317	13
1207	Cationic dyes adsorption onto high surface area Elmond shell activated carbon: Kinetics, equilibrium isotherms and surface statistical modeling. <b>2018</b> , 8, 121-132	102
1206	Ultrafast catalytic synthesis of carbon nanofibers on a surface of commercial chlorinated polymers under the action of a high power ion beam of nanosecond duration. <b>2018</b> , 448, 642-645	10
1205	In-situ growth of MnO2 nanorods forest on carbon textile as efficient electrode material for supercapacitors. <b>2018</b> , 17, 318-326	24
1204	Oxygen-reduction catalysis of N-doped carbons prepared via heat treatment of polyaniline at over 1100 °C. <b>2018</b> , 54, 4441-4444	37
1203	Rapid transformation of heterocyclic building blocks into nanoporous carbons for high-performance supercapacitors <b>2018</b> , 8, 12300-12309	33
1202	Formation of cyanide compounds during preparation of gold surfaces evidenced by surface-enhanced Raman spectroscopy. <b>2018</b> , 49, 1184-1189	3
1201	Coking and sintering progress of a Ni supported catalyst in the steam reforming of biomass pyrolysis volatiles. <b>2018</b> , 233, 289-300	93

1200	Recycling Waste Soot from Merchant Ships to Produce Anode Materials for Rechargeable Lithium-Ion Batteries. <b>2018</b> , 8, 5601		7
1199	Scalable production of large single-layered graphenes by microwave exfoliation <b>I</b> h deionized water[] <i>Carbon</i> , <b>2018</b> , 134, 431-438	10.4	10
1198	Low temperature preparation of pore structure controllable graphene for high volumetric performance supercapacitors. <b>2018</b> , 273, 181-190		13
1197	Most ancient evidence for life in the Barberton greenstone belt: Microbial mats and biofabrics of the ~3.47 Ga Middle Marker horizon. <b>2018</b> , 312, 45-67		29
1196	The effect of different radio-frequency powers on characteristics of carbon-titanium nanocomposite thin films prepared by reactive sputtering. <b>2018</b> , 660, 899-906		4
1195	Characteristics of carbon-nickel nanocomposite thin films prepared by reactive sputtering under different radio frequency powers and their applications for electronic devices. <b>2018</b> , 653, 350-358		1
1194	A Facile Large-Scale Synthesis of Porous SnO2 by Bronze for Superior Lithium Storage and Gas Sensing Properties Through a Wet Chemical Reaction Strategy. <b>2018</b> , 47, 2545-2556		6
1193	Potassium and soot interaction in fast biomass pyrolysis at high temperatures. <b>2018</b> , 225, 89-94		25
1192	A CVD Method for Preparing CNTs-Grafted Carbon Fiber Fabrics under Quasi-Vacuum at Low Temperature. <b>2018</b> , 7, M49-M53		8
1191	Hygroscopic Coating of Sulfuric Acid Shields Oxidant Attack on the Atmospheric Pollutant Benzo(a)pyrene Bound to Model Soot Particles. <b>2018</b> , 8, 129		3
1190	Operando Raman spectroscopy on CO2 methanation over alumina-supported Ni, Ni3Fe and NiRh0.1 catalysts: Role of carbon formation as possible deactivation pathway. <b>2018</b> , 556, 160-171		39
1189	Thermally stable Halumina supported ceria for coking resistance and oxidation of radical coke generated in-situ. <b>2018</b> , 218, 357-365		8
1188	Direct synthesis of hollow carbon nanofibers on bio-char during microwave pyrolysis of pine nut shell. <b>2018</b> , 130, 142-148		21
1187	Scalable and sustainable synthesis of carbon microspheres via a purification-free strategy for sodium-ion capacitors. <b>2018</b> , 379, 33-40		32
1186	Advanced characterization unravels the structure and reactivity of wood-based chars. <b>2018</b> , 130, 79-89		16
1185	Old-loofah-derived hard carbon for long cyclicity anode in sodium ion battery. <b>2018</b> , 43, 3253-3260		37
1184	Ethers as Oxygen Donor and Carbon Source in Non-hydrolytic Sol-Gel: One-Pot, Atom-Economic Synthesis of Mesoporous TiO -Carbon Nanocomposites. <b>2018</b> , 24, 4982-4990		8
1183	Production of bamboo-type carbon nanotubes doped with nitrogen from polyamide pyrolysis gas. <b>2018</b> , 130, 52-61		11

1182	Main structural features of graphene materials controlling the transport properties of epoxy resin-based composites. <b>2018</b> , 101, 56-65	14
1181	Dipole-moment-driven diesel soot oxidation in the presence of alkali metal chlorides. <b>2018</b> , 8, 970-974	3
1180	Silicon oxycarbide produced from silicone oil for high-performance anode material in sodium ion batteries. <b>2018</b> , 338, 126-136	42
1179	In Situ Study on K2CO3-Catalyzed CO2 Gasification of Coal Char: Interactions and Char Structure Evolution. <b>2018</b> , 32, 1320-1327	23
1178	Electrically Conducting Carbon Microparticles by Direct Carbonization of Spent Wood Pulping Liquor. <b>2018</b> , 6, 3385-3391	13
1177	Structural features and gasification reactivity of biomass chars pyrolyzed in different atmospheres at high temperature. <b>2018</b> , 147, 25-35	59
1176	Potassium Catalytic Effect on Gasification Reactions of Coal and Coal/Biomass Blends under Oxy-combustion Conditions. An Isotopic Study Using 13C18O2. <b>2018</b> , 32, 2439-2449	8
1175	Vapor-phase assisted hydrothermal carbon from sucrose and its application in acid catalysis. <b>2018</b> , 20, 1345-1353	25
1174	Influence of Carbon Material Properties on Activity and Stability of the Negative Electrode in Vanadium Redox Flow Batteries: A Model Electrode Study. <b>2018</b> , 1, 1166-1174	20
1173	Achieving a stable Na metal anode with a 3D carbon fibre scaffold. <b>2018</b> , 5, 864-869	31
1172	Flame-retarding epoxy resin with an efficient P/N/S-containing flame retardant: Preparation, thermal stability, and flame retardance. <b>2018</b> , 149, 69-77	98
1171	Dodecylamine-Induced Synthesis of a Nitrogen-Doped Carbon Comb for Advanced LithiumBulfur Battery Cathodes. <b>2018</b> , 5, 1701659	20
1170	Temperature Programmed Oxidation Coupled with In Situ Techniques Reveal the Nature and Location of Coke Deposited on a Ni/La2O3-Al2O3 Catalyst in the Steam Reforming of Bio-oil. <b>2018</b> , 10, 2311-2321	24
1169	Effects of specific surface area of metallic nickel particles on carbon deposition kinetics. <b>2018</b> , 25, 226-235	3
1168	Coupling of Methane to Ethane, Ethylene, and Aromatics over Nickel on Cerialirconia at Low Temperatures. <b>2018</b> , 10, 2700-2708	11
1167	Impact of biodiesel impurities on carbon oxidation in passive regeneration conditions: Influence of the alkali metals. <b>2018</b> , 226, 596-607	17
1166	Direct chitin conversion to N-doped amorphous carbon nanofibers for high-performing full sodium-ion batteries. <b>2018</b> , 45, 220-228	134
1165	A study of the relationships between coal structures and combustion characteristics: The insights from micro-Raman spectroscopy based on 32 kinds of Chinese coals. <b>2018</b> , 212, 46-56	58

1164	Sooting structure of a premixed toluene-doped methane flame. <b>2018</b> , 190, 252-259	13
1163	The influence of pyrolysis temperature on the electrochemical behavior of porous carbon-rich SiCN polymer-derived ceramics. <b>2018</b> , 315, 59-64	14
1162	Electrocatalytic Activity of Ionic-Liquid-Derived Porous Carbon Materials for the Oxygen Reduction Reaction. <b>2018</b> , 5, 1037-1046	18
1161	High performance strain sensors based on chitosan/carbon black composite sponges. <b>2018</b> , 141, 276-285	35
1160	Effects of Flame Configuration and Soot Aging on Soot Nanostructure and Reactivity in n-Butanol-Doped Ethylene Diffusion Flames. <b>2018</b> , 32, 607-624	26
1159	A review of fundamental factors affecting diesel PM oxidation behaviors. <b>2018</b> , 61, 330-345	29
1158	Combustion kinetics and structural features of bituminous coal before and after modification process. <b>2018</b> , 131, 983-992	10
1157	Electrochemical analysis of nanoporous carbons derived from activation of polypyrrole for stable supercapacitors. <b>2018</b> , 53, 5229-5241	23
1156	Solar-Thermal Pyrolysis of Mallee Wood at High Temperatures. <b>2018</b> , 32, 4350-4356	11
1155	Study on effects of ash on the evolution of physical and chemical structures of char during CO2 gasification. <b>2018</b> , 217, 587-596	25
1154	Inherently Catalyzed Boudouard Reaction of Bamboo Biochar for Solid Oxide Fuel Cells with Improved Performance. <b>2018</b> , 32, 4559-4568	8
1153	Probing superlubricity stability of hydrogenated diamond-like carbon film by varying sliding velocity. <b>2018</b> , 439, 976-982	46
1152	Biofuel Impact on Diesel Engine After-Treatment: Deactivation Mechanisms and Soot Reactivity. <b>2018</b> , 4, 15-32	11
1151	RaMM (Raman maturity method) study of samples used in an interlaboratory exercise on a standard test method for determination of vitrinite reflectance on dispersed organic matter in rocks. <b>2018</b> , 91, 236-250	19
1150	Fabrication of Graphene Network in Alumina Ceramics with Adjustable Negative Permittivity by Spark Plasma Sintering. <b>2018</b> , 122, 1791-1799	25
1149	Time-resolved measurement of elemental carbon in urban environment: Comparison of Raman backscattering and aethalometer results. <b>2018</b> , 117, 34-43	5
1148	Three dimensional hierarchically porous ZIF-8 derived carbon/LDH core-shell composite for high performance supercapacitors. <b>2018</b> , 263, 391-399	48
1147	Nitrogen and Sulfur Self-Doped Activated Carbon Directly Derived from Elm Flower for High-Performance Supercapacitors. <b>2018</b> , 3, 4724-4732	58

1146	Slip parameters on major thrusts at a convergent plate boundary: regional heterogeneity of potential slip distance at the shallow portion of the subducting plate. <b>2018</b> , 70,	7
1145	Oxidation and stability of multi-walled carbon nanotubes in hydrogen peroxide solution. <b>2018</b> , 214, 472-481	7
1144	Borate cross-linked layer-by-layer assembly of green polyelectrolytes on polyamide 66 fabrics for flame-retardant treatment. <b>2018</b> , 121, 173-181	34
1143	Nitrogen and oxygen dual-doped porous carbons prepared from pea protein as electrode materials for high performance supercapacitors. <b>2018</b> , 43, 18549-18558	51
1142	Hygroscopicity of organic surrogate compounds from biomass burning and their effect on the efflorescence of ammonium sulfate in mixed aerosol particles. <b>2018</b> , 18, 1045-1064	16
1141	Characterization of individual ice residual particles by the single droplet freezing method: a´case study in the Asian dust outflow region. <b>2018</b> , 18, 1785-1804	15
1140	Effect of additive phosphorus-nitrogen containing flame retardant on char formation and flame retardancy of epoxy resin. <b>2018</b> , 214, 154-164	66
1139	High-Performance Hard Carbon Anode: Tunable Local Structures and Sodium Storage Mechanism. <b>2018</b> , 1, 2295-2305	41
1138	Direct carbonization of Zn/Co zeolitic imidazolate frameworks for efficient adsorption of Rhodamine B. <b>2018</b> , 347, 640-647	90
1137	Characterization and reactivity of soot from fast pyrolysis of lignocellulosic compounds and monolignols. <b>2018</b> , 212, 1489-1500	32
1136	Preparation and characterization of coal-based carbon foams by microwave heating process under ambient pressure. <b>2018</b> , 86, 63-70	7
1135	Electrochemical Performance and Mechanisms of NaSn2(PO4)3/C Composites as Anode Materials for Li-Ion Batteries. <b>2018</b> , 122, 11194-11203	7
1134	A promising graphitic N-dominated porous carbon catalyst derived from lotus leaves for oxygen reduction reaction. <b>2018</b> , 24, 3601-3609	8
1133	Mesopore-dominant nitrogen-doped carbon with a large defect degree and high conductivity inherent hydroxyapatite-induced self-activation for lithium-ion batteries <b>2018</b> , 8, 12204-12210	8
1132	Impacts of ester carbon chain length and concentration on sooting propensities and soot oxidative reactivity: Application to Diesel and Biodiesel surrogates. <b>2018</b> , 222, 586-598	31
1131	Correlation between the carbon structures and their tolerance to carbon corrosion as catalyst supports for polymer electrolyte fuel cells. <b>2018</b> , 43, 6406-6412	21
1130	14C selective extraction from French graphite nuclear waste by CO2 gasification. <b>2018</b> , 105, 279-286	10
1129	Different electrochemical responses of LiFe0.5Mn0.5PO4 prepared by mechanochemical and solvothermal methods. <b>2018</b> , 742, 454-465	10

1128	High-Pressure High-Temperature Study of Benzene: Refined Crystal Structure and New Phase Diagram up to 8 GPa and 923 K. <b>2018</b> , 18, 3016-3026	18
1127	Highly thermostable and durably flame-retardant unsaturated polyester modified by a novel polymeric flame retardant containing Schiff base and spirocyclic structures. <b>2018</b> , 344, 419-430	79
1126	In situ growing CNTs encapsulating nickel compounds on Ni foils with ethanol flame method as superior counter electrodes of dye-sensitized solar cells. <i>Carbon</i> , <b>2018</b> , 133, 423-434	24
1125	Comparison of the morphology, chemical composition and microstructure of cryptocrystalline graphite and carbon black. <b>2018</b> , 445, 335-341	26
1124	Microstructure of graptolite periderm in Silurian gas shales of Northern Poland. 2018, 189, 1-7	16
1123	Oxidation Activity Restoration of Diesel Particulate Matter by Aging in Air. <b>2018</b> , 32, 2450-2457	15
1122	1D N-doped hierarchically porous hollow carbon tubes derived from a supramolecular template as metal-free electrocatalysts for a highly efficient oxygen reduction reaction. <b>2018</b> , 6, 6212-6219	55
1121	Comparison of activated carbon and iron/cerium modified activated carbon to remove methylene blue from wastewater. <b>2018</b> , 65, 92-102	64
1120	Structural and kinetic insights into Pt/CNT catalysts during hydrogen generation from ammonia borane. <b>2018</b> , 192, 1242-1251	29
1119	Catalytic properties of carbon nanotubes-supported heteropolyacids in isopropanol conversion. <b>2018</b> , 549, 254-262	11
1118	Accelerated formation of nanocarbons in solution plasma using benzene substituted with CF3 group. <b>2018</b> , 57, 0102B6	
1117	Mussel byssus-inspired engineering of synergistic nanointerfacial interactions as sacrificial bonds into carbon nanotube-reinforced soy protein/nanofibrillated cellulose nanocomposites: Versatile mechanical enhancement. <b>2018</b> , 434, 1086-1100	27
1116	Honeycomb-like structured biological porous carbon encapsulating PEG: A shape-stable phase change material with enhanced thermal conductivity for thermal energy storage. <b>2018</b> , 158, 1049-1062	184
1115	Extreme condition nanocarbon formation under air and argon atmospheres during detonation of composition B-3. <i>Carbon</i> , <b>2018</b> , 126, 289-298	12
1114	Effects of alpha irradiation on Nd2Zr2O7 matrix for nuclear waste forms. <b>2018</b> , 54, 33-38	3
1113	Influence of heating procedures on the surface structure of stabilized polyacrylonitrile fibers. <b>2018</b> , 433, 321-328	19
1112	Stable-isotope Raman microspectroscopy for the analysis of soil organic matter. <b>2018</b> , 410, 923-931	9
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1110	Lignin-based carbon fibers for renewable and multifunctional lithium-ion battery electrodes. <b>2018</b> , 72, 81-90	37
1109	Salt melt synthesis of curved nitrogen-doped carbon nanostructures: ORR kinetics boost. <b>2018</b> , 435, 543-551	14
1108	Porous Ni@C derived from bimetallic Metal®rganic Frameworks and its application for improving LiBH4 dehydrogenation. <b>2018</b> , 735, 1637-1647	15
1107	The Li-storage capacity of SiOC glasses with and without mixed silicon oxycarbide bonds. <b>2018</b> , 6, 93-103	50
1106	Superior potassium storage in chitin-derived natural nitrogen-doped carbon nanofibers. <i>Carbon</i> , <b>2018</b> , 128, 224-230	129
1105	Effect of mineral constituents on temperature-dependent structural characterization of carbon fractions in sewage sludge-derived biochar. <b>2018</b> , 172, 3342-3350	40
1104	Carbon-Sheathed MoS2 Nanothorns Epitaxially Grown on CNTs: Electrochemical Application for Highly Stable and Ultrafast Lithium Storage. <b>2018</b> , 8, 1700174	118
1103	Low-cost palladium decorated on m-aminophenol-formaldehyde-derived porous carbon spheres for the enhanced catalytic reduction of organic dyes. <b>2018</b> , 5, 354-363	24
1102	Understanding Interactions between Clay and Model Coal Surfaces in Electrolyte Solutions by a Quartz Crystal Microbalance with Dissipation Study. <b>2018</b> , 32, 233-240	6
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1100	Phosphorus functionalization for the rapid preparation of highly nanoporous submicron-diameter carbon fibers by electrospinning of lignin solutions. <b>2018</b> , 6, 1219-1233	68
1099	Reduction of Graphene Oxide Thin Films by Cobaltocene and Decamethylcobaltocene. <b>2018</b> , 10, 2004-2015	16
1098	Structure and size of soot nanoparticles in laminar premixed flames at different equivalence ratios. <b>2018</b> , 216, 456-462	15
1097	Characterization of ultralow thermal conductivity in anisotropic pyrolytic carbon coating for thermal management applications. <i>Carbon</i> , <b>2018</b> , 129, 476-485	17
1096	Reduction and shaping of graphene-oxide by laser-printing for controlled bone tissue regeneration and bacterial killing. <b>2018</b> , 5, 015027	25
1095	Novel nanosheets of ferrite nanoparticle arrays in carbon matrix from single source precursors: an anode material for lithium-ion batteries. <b>2018</b> , 53, 4456-4466	8
1094	Carbon aerogels towards new candidates for double negative metamaterials of low density. <i>Carbon</i> , <b>2018</b> , 129, 598-606	86
1093	Onion-like carbon as dopant/modification-free electrocatalyst for [VO]2+/[VO2]+ redox reaction: Performance-control mechanism. <i>Carbon</i> , <b>2018</b> , 127, 31-40	10

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1072	Orange, yellow and blue luminescent carbon dots controlled by surface state for multicolor cellular imaging, light emission and illumination. <b>2018</b> , 185, 539	25
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1069	Green and scalable synthesis of 3D porous carbons microstructures as electrode materials for high rate capability supercapacitors <b>2018</b> , 8, 40950-40961	1
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1067	Co-pyrolysis Behavior and Char Structure Evolution of Raw/Torrefied Rice Straw and Coal Blends. <b>2018</b> , 32, 12469-12476	28
1066	Hydrogen production from crude oil with fine iron particles through microwave-initiated catalytic dehydrogenation promoted by emulsified feed. <b>2018</b> , 43, 23201-23208	2
1065	Biomass carbon materials derived from macadamia nut shells for high-performance supercapacitors. <b>2018</b> , 41, 1	2
1064	Hydrogen Sorption Characteristics of Ordered Mesoporous Carbons: Experimental and Modeling View Point. <b>2018</b> ,	1
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1054	Adsorptive Removal of Methylene Blue and Crystal Violet onto Micro-Mesoporous Zr3O/Activated Carbon Composite: A Joint Experimental and Statistical Modeling Considerations. <b>2018</b> , 2018, 1-14	21
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1049	Physical and Chemical Considerations for Improving Catalytic Activity and Stability of Non-Precious-Metal Oxygen Reduction Reaction Catalysts. <b>2018</b> , 8, 11264-11276	67
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1046	Co3O4/carbon nano-onions composite as supercapacitor electrode and its excellent electrochemical performance. <b>2018</b> , 109, 873-879	3
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1037	Effects of dimethyl ether addition on soot formation, evolution and characteristics in flame-wall interactions. <b>2018</b> , 164, 642-654	14
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902	Chemical-physical analysis and exfoliation of biochar-carbon matter: from agriculture soil improver to starting material for advanced nanotechnologies. <b>2019</b> , 6, 115612	3
901	A Facile Route for Constructing Effective Cu-N Active Sites for Oxygen Reduction Reaction. <b>2019</b> , 26, 4070	13
900	Special issue on VINCI 2017 best papers. <b>2019</b> , 54, 100909	
899	Silver-doped superhydrophobic carbon soot coatings with enhanced wear resistance and anti-microbial performance. <b>2019</b> , 582, 123880	32
898	Diffusion effect and evolution of kinetic parameters during coal char-CO2 gasification. <b>2019</b> , 255, 115819	13
897	PtBd/MnOxAl2O3 Oxidation Catalysts: Prospects of Application for Control of the Soot Emission with Diesel Exhaust Gases. <b>2019</b> , 60, 453-464	4
896	Carbon nanofibers as thick electrodes for aqueous supercapacitors. <b>2019</b> , 26, 100981	10
895	Thermal maturity determination for oil prone organic matter based on the Raman spectra of artificial matured samples. <b>2019</b> , 104, 102940	3

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	2013, 23, 020-021		
893	Hierarchically channel-guided porous wood-derived shape-stabilized thermal regulated materials with enhanced thermal conductivity for thermal energy storage. <b>2019</b> , 6, 115515		25
892	Nitrogen-doped carbon derived from pre-oxidized pitch for surface dominated potassium-ion storage. <i>Carbon</i> , <b>2019</b> , 155, 601-610	10.4	72
891	Micro-Raman Spectroscopy of Microscopically Distinguishable Components of Naturally Graphitized Coals from Central Hunan Province, China. <b>2019</b> , 33, 1037-1048		23
890	Atomic-Scale Understanding about Coke Carbon Structural Evolution by Experimental Characterization and ReaxFF Molecular Dynamics. <b>2019</b> , 33, 10941-10952		8
889	Symmetry reductions, exact solutions, stability analysis and conservation laws of time-fractional SharmallassoDlever equation. <b>2019</b> , 16, 1950087		Ο
888	Synthesis of acrylated cardanol diphenyl phosphate for UV curable flame-retardant coating application. <b>2019</b> , 121, 109320		15
887	Design and Fabrication of CNT-Based \${E}\$ -Gun Using Stripe-Patterned Alloy Substrate for X-Ray Applications. <b>2019</b> , 66, 5301-5304		5
886	Efficient oxygen reduction to H2O2 in highly porous manganese and nitrogen co-doped carbon nanorods enabling electro-degradation of bulk organics. <i>Carbon</i> , <b>2019</b> , 155, 643-649	10.4	10
885	A negative effect of carbon phase on specific capacity of electrode material consisted of nanosized bismuth vanadate embedded in carbonaceous matrix. <b>2019</b> , 257, 116168		6
884	A multi-analytical characterization of artists larbon-based black pigments. 2019, 138, 3287-3299		9
883	Porous Nitrogen-Doped Carbons as Effective Catalysts for Oxygen Reduction Reaction Synthesized from Cellulose and Polyamide. <b>2019</b> , 6, 5735-5743		9
882	Sulphur and nitrogen co-doped graphene-based electrocatalysts for oxygen reduction reaction in alkaline medium. <b>2019</b> , 109, 106603		25
881	Preparation and characterization of mosaic coke from heavy-phase coal pitch. <b>2019</b> , 14, e2369		5
880	ENAM mutations and digenic inheritance. <b>2019</b> , 7, e00928		5
879	Reactivity and Physicochemical Properties of the Soot Produced in the Pyrolysis of 2,5-Dimethylfuran and 2-Methylfuran. <b>2019</b> , 33, 9851-9858		6
878	The evolution of Fe and Fe-Ca catalysts during char catalytic hydrogasification. <b>2019</b> , 257, 116040		9
877	Formation of TiO@Carbon Core/Shell Nanocomposites from a Single Molecular Layer of Aromatic Compounds for Photocatalytic Hydrogen Peroxide Generation. <b>2019</b> , 11, 41196-41203		9

876	Exploiting the Condensation Reactions of Acetophenone to Engineer Carbon-Encapsulated Nb2O5 Nanocrystals for High-Performance Li and Na Energy Storage Systems. <b>2019</b> , 9, 1902813	27
875	Friction-induced rehybridization of hydrothermal amorphous carbon in magnesium silicate hydroxide-based nanocomposite. <i>Carbon</i> , <b>2019</b> , 155, 650-659	13
874	Enhanced leachability of rare earth elements from calcined products of bituminous coals. <b>2019</b> , 142, 105935	17
873	Free-Standing and Heteroatoms-Doped Carbon Nanofiber Networks as a Binder-Free Flexible Electrode for High-Performance Supercapacitors. <b>2019</b> , 9,	9
872	Odilon Redon noir drawings: characterization of materials and methods using noninvasive imaging and spectroscopies. <b>2019</b> , 7,	4
871	NO and natural organic matter affect both soot aggregation behavior and sorption of S-metolachlor. <b>2019</b> , 21, 1729-1735	3
870	Correlation of Structure and Performance of Hard Carbons as Anodes for Sodium Ion Batteries. <b>2019</b> , 31, 7288-7299	43
869	Direct Laser Writing of Functional Strain Sensors in Polyimide Tubes. <b>2019</b> , 1, 2914-2923	9
868	Candle soot coated polyurethane foam as an adsorbent for removal of organic pollutants from water. <b>2019</b> , 134, 1	17
867	Hierarchically Porous Carbon Derived from Neolamarckia cadamba for Electrochemical Capacitance and Hydrogen Storage. <b>2019</b> , 7, 15385-15393	22
866	MnO2 and Reduced Graphene Oxide as Bifunctional Electrocatalysts for LiD2 Batteries. <b>2019</b> , 2, 7121-7131	13
865	Prussian blue-assisted one-pot synthesis of nitrogen-doped mesoporous graphitic carbon spheres for supercapacitors. <b>2019</b> , 7, 22092-22102	13
864	Hydrothermal Fabrication of Fe3O4@Carbonaceous Microspheres for Efficient Removal of Oil and Metal Ions from the Aqueous Phase. <b>2019</b> , 58, 18613-18622	5
863	Structure, surface and reactivity of activated carbon: From model soot to Bio Diesel soot. <b>2019</b> , 257, 116038	23
862	Carbonisation temperature dependence of electrochemical activity of nitrogen-doped carbon fibres from electrospinning as air-cathodes for aqueous-alkaline metal-air batteries <b>2019</b> , 9, 27231-27241	9
861	Study of CuNina Composite Catalysts in Catalytic Hydrogasification of Char. <b>2019</b> , 33, 9661-9670	5
860	Synthesis of Pt-SnOx/TS-1@SBA-16 Composites and Their High Catalytic Performance for Propane Dehydrogenation. <b>2019</b> , 35, 866-873	5
859	Synergy of nitrogen doping and structural defects on hierarchically porous carbons toward catalytic oxidation via a non-radical pathway. <i>Carbon</i> , <b>2019</b> , 155, 268-278	38

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840	Iron-based nanoparticles prepared from yerba mate extract. Synthesis, characterization and use on chromium removal. <b>2019</b> , 235, 1-8	21
839	Scalable Production of Graphene Oxide Using a 3D-Printed Packed-Bed Electrochemical Reactor with a Boron-Doped Diamond Electrode. <b>2019</b> , 2, 867-878	25
838	Adjustable optical transmittance of superhydrophobic carbon soot coatings by in-situ single-step control of their physicochemical profile. <b>2019</b> , 567, 325-333	14
837	Strengthening and Modulating Interphases in Carbon Fiber/Epoxy Composites by Grafting Dendritic Polyetheramine With Different Molecular Weights Onto Carbon Fiber. <b>2019</b> , 40, E1525	2
836	A green and energy-saving microwave-based method to prepare magnetic carbon beads for catalytic wet peroxide oxidation. <b>2019</b> , 215, 232-244	12
835	Highly active atomically dispersed CoN4 fuel cell cathode catalysts derived from surfactant-assisted MOFs: carbon-shell confinement strategy. <b>2019</b> , 12, 250-260	475
834	Highly Porous Graphitic Activated Carbons from Lignite via Microwave Pretreatment and Iron-Catalyzed Graphitization at Low-Temperature for Supercapacitor Electrode Materials. <b>2019</b> , 7, 300	10
833	N-doping and oxidation of carbon nanotubes and jellyfish-like graphene nanoflakes through the prism of Raman spectroscopy. <b>2019</b> , 488, 51-60	39
832	Airborne particulate matter emissions from vehicle brakes in micro- and nano-scales: Morphology and chemistry by electron microscopy. <b>2019</b> , 212, 281-289	20
831	Processing, characterization and properties of novel gradient Si3N4/SiC fibers derived from polycarbosilanes. <b>2019</b> , 39, 3613-3619	7
830	Formation the Properties of Carbon Black Particles by Gas-Phase Thermochemical Modification. <b>2019</b> , 10, 480-495	2
829	Carbon soot with arbitrary wettability deposited on solid surface by ethanol flame method. <b>2019</b> , 578, 123576	7
828	A novel flame retardant derived from DOPO and piperazine and its application in epoxy resin: Flame retardance, thermal stability and pyrolysis behavior. <b>2019</b> , 166, 334-343	52
827	Trace pyrolyzed ZIF-67 loaded activated carbon pellets for enhanced adsorption and catalytic degradation of Rhodamine B in water. <b>2019</b> , 375, 122003	50
826	Diesel soot coated non-woven fabric for oil-water separation and adsorption applications. <b>2019</b> , 9, 8503	17
825	Synthesis of a Novel Phosphorous-Nitrogen Based Charring Agent and Its Application in Flame-retardant HDPE/IFR Composites. <b>2019</b> , 11,	16
824	Amorphous Carbon Doping Nano-Magnesium Silicate Hydroxide with Significant Tribological Property. <b>2019</b> , 67, 1	3
823	Graphene oxide-ordered mesoporous silica composite supported Co-based catalysts for CO hydrogenation to higher alcohols. <b>2019</b> , 583, 117123	8

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822	The application of Raman spectroscopy combined with multivariable analysis on source apportionment of atmospheric black carbon aerosols. <b>2019</b> , 685, 189-196	14
821	Synergistic electrocatalysis of polysulfides by a nanostructured VS4-carbon nanofiber functional separator for high-performance lithiumBulfur batteries. <b>2019</b> , 7, 16812-16820	61
820	Graphene-Like Carbon Derived from Macadamia Nut Shells for High-Performance Supercapacitor. <b>2019</b> , 55, 242-246	6
819	Structural evolution of organic matter and implications for graphitization in over-mature marine shales, south China. <b>2019</b> , 109, 304-316	20
818	Fabrication of ZnO/N-rGO composite as highly efficient visible-light photocatalyst for 2,4-DCP degradation and H2 evolution. <b>2019</b> , 488, 611-619	30
817	Extended flat voltage profile of hard carbon synthesized using a two-step carbonization approach as an anode in sodium ion batteries. <b>2019</b> , 430, 157-168	28
816	Concurrent nanoscale surface etching and SnO loading of carbon fibers for vanadium ion redox enhancement. <b>2019</b> , 10, 985-992	3
815	Inside the different types of carbon black as nanomodifiers for screen-printed electrodes. <b>2019</b> , 317, 673-683	41
814	Interfacial characteristics of titanium coated micro-powder diamond abrasive tools fabricated by electroforming-brazing composite process. <b>2019</b> , 84, 104973	11
813	Physical chemistry insights into surface charge phenomena during frictional coupling in triboelectric X-ray sources. <b>2019</b> , 7, 7708-7724	9
812	Synthesis of DOPO-based pyrazine derivative and its effect on flame retardancy and thermal stability of epoxy resin. <b>2019</b> , 30, 2331-2339	22
811	Utility of Raman spectroscopy in estimates of the thermal maturity of Ediacaran organic matter: An example from the East European Craton. <b>2019</b> , 79, 467-474	5
810	Lignin Based Electrospun Carbon Fiber Anode for Sodium Ion Batteries. <b>2019</b> , 166, A1984-A1990	15
809	Catalytic Effect of NaCl on the Improvement of the Physicochemical Structure of Coal-Based Activated Carbons for SO2 Adsorption. <b>2019</b> , 7, 338	4
808	Modulating surface chemistry of heteroatom-rich micropore carbon cloth electrode for aqueous 2.1 V high-voltage window all-carbon supercapacitor. <b>2019</b> , 431, 232-238	19
807	Sol-gel assisted chemical activation for nitrogen doped porous carbon. <b>2019</b> , 286, 18-24	12
806	Applications in: Environmental Analytics (fine particles). <b>2019</b> , 4,	1
805	In Situ Synthesis and Electrocatalytic Performance of Fe/Fe2.5C/Fe3N/Nitrogen-Doped Carbon Nanotubes for the Oxygen Reduction Reaction. <b>2019</b> , 6, 3030-3038	5

804	Multidimensional Ordered Bifunctional Air Electrode Enables Flash Reactants Shuttling for High-Energy Flexible Zn-Air Batteries. <b>2019</b> , 9, 1900911	85
803	Ultrafast Sodium Storage through Capacitive Behaviors in Carbon Nanosheets with Enhanced Ion Transport. <b>2019</b> , 6, 3043-3048	2
802	Mechanistic study on direct synthesis of carbon nanotubes from cellulose by means of microwave pyrolysis. <b>2019</b> , 192, 88-99	21
801	Effects of 2,5-dimethylfuran addition on morphology, nanostructure and oxidation reactivity of diesel exhaust particles. <b>2019</b> , 253, 731-740	30
800	Templated growth of Fe/N/C catalyst on hierarchically porous carbon for oxygen reduction reaction in proton exchange membrane fuel cells. <b>2019</b> , 431, 31-39	28
799	Tea waste derived microporous active carbon with enhanced double-layer supercapacitor behaviors. <b>2019</b> , 487, 189-197	65
798	Molybdenum trisulfide based anionic redox driven chemistry enabling high-performance all-solid-state lithium metal batteries. <b>2019</b> , 23, 168-180	25
797	Enhancement of vapor flux and salt rejection efficiency induced by low cost-high purity MWCNTs in upscaled PVDF and PVDF-HFP hollow fiber modules for membrane distillation. <b>2019</b> , 224, 163-179	14
796	Particle Size- and Crystallinity-Controlled Phosphorus Release from Biochars. <b>2019</b> , 33, 5343-5351	6
795	Oxidative Reactivity of Particulate Samples from Different Diesel Combustion Systems and Its Relation to Structural and Spectral Characteristics of Soot. <b>2019</b> , 5, 99-123	4
794	A simple and universal method for preparing N, S co-doped biomass derived carbon with superior performance in supercapacitors. <b>2019</b> , 309, 34-43	39
793	Effect of graphene oxide on wear resistance of polyester resin electrostatically deposited on steel sheets. <b>2019</b> , 426-427, 296-301	4
792	Boosting the pseudocapacitance of nitrogen-rich carbon nanorod arrays for electrochemical capacitors. <b>2019</b> , 7, 12086-12094	23
791	Superior potassium storage in natural O/Ndoped hard carbon derived from maple leaves. <b>2019</b> , 30, 8911-8919	16
790	Role of radicals in carbon clustering and soot inception: A combined EPR and Raman spectroscopic study. <b>2019</b> , 205, 286-294	24
789	Hierarchically porous SiO/polyurethane foam composites towards excellent thermal insulating, flame-retardant and smoke-suppressant performances. <b>2019</b> , 375, 61-69	58
788	Enhanced adsorption of Rhodamine B by magnetic nitrogen-doped porous carbon prepared from bimetallic ZIFs. <b>2019</b> , 575, 10-17	30
787	On-line determination of soot oxidation reactivity. <b>2019</b> , 132, 12-21	3

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786	S-doping coupled with pore-structure modulation to conducting carbon black: Toward high mass loading electrical double-layer capacitor. <i>Carbon</i> , <b>2019</b> , 149, 646-654	10.4	18
785	Tremella-like nitrogen-doped microporous carbon derived from housefly larvae for efficient encapsulation of small S24 molecules in Li-S batteries. <b>2019</b> , 6, 085509		1
784	Thermal conductivity of high density polyethylene: Cold plasma modified graphite composites. <b>2019</b> , 40, 4228-4237		1
783	The field emission of carbon-in-AlOC nanoneedles and its failure mechanism: high-field induced shell cracking and chemical decomposition. <b>2019</b> , 30, 365702		
782	Hierarchical Architecture of Electrospun Hybrid PAN/Ag-rGO/Fe3O4 Composite Nanofibrous Mat for Antibacterial Applications. <b>2019</b> , 4, 5044-5054		3
781	Lath-shaped biomass derived hard carbon as anode materials with super rate capability for sodium-ion batteries. <b>2019</b> , 841, 63-72		15
780	ZrO2 nanoparticle embedded carbon nanofibers by electrospinning technique as advanced negative electrode materials for vanadium redox flow battery. <b>2019</b> , 309, 166-176		70
779	Effect of Na on the condensation reaction of naphthalene molecules during coal pyrolysis. <b>2021</b> , 98, 313-321		1
778	ZnS nanoparticles embedded in N-doped porous carbon xerogel as electrode materials for sodium-ion batteries. <b>2021</b> , 877, 160299		4
777	Turning a negative into a positive: Trends, guidelines and challenges of developing multifunctional non-wettable coatings based on industrial soot wastes. <b>2021</b> , 301, 121068		5
776	The combined use of wrinkling and cracking for the characterization of the mechanical properties of the laser-fabricated nanometer-thick amorphous carbon films. <i>Carbon</i> , <b>2021</b> , 184, 864-874	10.4	1
775	FeMoO4 nanorods anchored on graphene sheets as a potential anode for high performance sodium ion batteries. <b>2021</b> , 877, 160306		1
774	Nitrogen migration in coal during the chemical looping gasification reduction process using a nickel-based oxygen carrier. <b>2021</b> , 159, 105331		2
773	Exploration of cobalt selenitedarbon composite porous nanofibers as anode for sodium-ion batteries and unveiling their conversion reaction mechanism. <b>2021</b> , 89, 24-35		4
772	Active and selective nature of supported CrOx for the oxidative dehydrogenation of propane with carbon dioxide. <b>2021</b> , 297, 120400		14
771	Flame synthesis of carbon nanoparticles from corn oil as a highly effective cationic dye adsorbent. <b>2021</b> , 282, 131062		7
770	Study on the feasibility and co-combustion mechanism of mixed injection of biomass hydrochar and anthracite in blast furnace. <b>2021</b> , 304, 121465		6
769	New insights on lithium storage in silicon oxycarbide/carbon composites: Impact of microstructure on electrochemical properties. <b>2021</b> , 225, 109302		4

768	Exploring the effect of surface chemistry in carbon nanopores on melting behavior of water. <i>Carbon</i> , <b>2021</b> , 185, 252-263	10.4	1
767	The effect of ZnFe2O4/activated carbon adsorbent photocatalytic activity on gas-phase desulfurization. <b>2021</b> , 423, 130255		4
766	Using two-dimensional distributions to inform the mixing state of soot and salt particles produced in gas flares. <b>2021</b> , 158, 105826		3
765	Char structural evolution characteristics and its correlation with reactivity during the heterogeneous NO reduction in a micro fluidized bed reaction analyzer: The influence of reaction atmosphere. <b>2021</b> , 303, 121173		O
764	1D magnetic nitrogen doped carbon-based fibers derived from NiFe Prussian blue analogues embedded polyacrylonitrile via electrospinning with tunable microwave absorption. <b>2021</b> , 224, 109161		13
763	A comparative appraisal of Raman band ratioing and chemometric analysis for classification of ancient papyri. <b>2021</b> , 52, 55-64		O
762	Bovine blood husbandry waste as a pathway to renewable energy. <b>2021</b> , 90, 106505		2
761	Transfer layer evolution during friction in HIPIMS Will coatings. <b>2021</b> , 486-487, 204123		3
760	Water enrichment/depletion of amorphous carbon coatings probed by temperature-dependent dc electrical conductivity and Raman scattering. <b>2021</b> , 570, 151052		O
759	N-doped carbon nanosheets assembled microspheres for more effective capacitive deionization. <b>2021</b> , 276, 119336		1
758	Highly dispersed Cu atoms in MOF-derived N-doped porous carbon inducing Pt loads for superior oxygen reduction and hydrogen evolution. <b>2021</b> , 426, 130749		5
757	Boosting hydrogen evolution electrocatalysis through defect engineering: A strategy of heat and cool shock. <b>2021</b> , 426, 131524		2
756	Impact of C-CVD synthesis conditions on the hydraulic and electronic properties of SiC/CNTs nanocomposite microfiltration membranes. <b>2021</b> , 120, 108611		О
755	Experimental investigation on carbon microstructure for coal gasification in supercritical water. <b>2021</b> , 306, 121675		2
754	Lignin-derived hard carbon anode for potassium-ion batteries: Interplay among lignin molecular weight, material structures, and storage mechanisms. <b>2022</b> , 427, 131547		9
753	Crosslinked polyacrylonitrile precursor for S@pPAN composite cathode materials for rechargeable lithium batteries. <b>2022</b> , 65, 186-193		2
752	Investigating the effects of biochar colloids and nanoparticles on cucumber early seedlings. <b>2022</b> , 804, 150233		2
751	Co-gasification of petroleum coke with coal at high temperature: Effects of blending ratio and the catalyst. <b>2022</b> , 307, 121863		2

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75°	Fabrication of three dimensional SiC@C hybrid for efficient direct dehydrogenation of ethylbenzene to styrene. <b>2022</b> , 103, 209-214	О
749	HO production at gas-diffusion cathodes made from agarose-derived carbons with different textural properties for acebutolol degradation in chloride media. <b>2022</b> , 423, 127005	5
748	An integrated two-step process of reforming and adsorption using biochar for enhanced tar removal in syngas cleaning. <b>2022</b> , 307, 121935	2
747	Steam reforming of sugar and its derivatives: Functionality dictates thermal properties and morphologies of coke. <b>2022</b> , 307, 121798	1
746	Experimental investigation into the oxidation reactivity, morphology and graphitization of soot particles from diesel/n-octanol mixtures <b>2022</b> , 112, 218-230	7
745	Element doping of biochars enhances catalysis of trichloroethylene dechlorination. <b>2022</b> , 428, 132496	2
744	A novel carbon aerogel enabling respiratory monitoring for bio-facial masks. <b>2021</b> , 9, 13143-13150	3
743	Fe-Enrichment effect on the composition and performance of Fe-based O-reduction electrocatalysts. <b>2021</b> , 23, 9147-9157	3
742	Influence of coalification on methane diffusion dynamics in middle-high rank coals. 1-15	О
74 <sup>1</sup>	Structural Evolution of High-Rank Coals during Coalification and Graphitization: X-ray Diffraction, Raman Spectroscopy, High-Resolution Transmission Electron Microscopy, and Reactive Force Field Molecular Dynamics Simulation Study. <b>2021</b> , 35, 2087-2097	8
740	Carbon hollow fiber membranes for a molecular sieve with precise-cutoff ultramicropores for superior hydrogen separation. <b>2021</b> , 12, 268	42
739	Covalent organic functionalization of graphene nanosheets and reduced graphene oxide via 1,3-dipolar cycloaddition of azomethine ylide.	3
738	Roles of ethanol and SiDH in the aldol condensation of ethyl acetate over a Cs/SBA-15 catalyst. <b>2021</b> , 6, 1002-1015	1
737	Outstanding Radiation Tolerance of Supported Graphene: Towards 2D Sensors for the Space Millimeter Radioastronomy. <b>2021</b> , 11,	2
736	An enhanced electrochemical energy storage performance based on porous activated carbon and hard carbon derived from natural maple leaf. <b>2021</b> , 32, 3487-3497	1
735	Micro-Raman Spectroscopy of Selected Macerals of the Huminite Group: An Example from the Szczerc Lignite Deposit (Central Poland). <b>2021</b> , 14, 281	Ο
734	First Phenol Carboxylation with CO on Carbon Nanostructured C@Fe-AlO Hybrids in Aqueous Media under Mild Conditions. <b>2021</b> , 11,	1
733	Graphite-type activated carbon from coconut shell: a natural source for eco-friendly non-volatile storage devices <b>2021</b> , 11, 2854-2865	13

732	Effect of Intrinsic Defects of Carbon Materials on the Sodium Storage Performance. <b>2020</b> , 10, 1903652		95
731	Synthesis of Porous Carbon-coated Cobalt Catalyst through Pyrolyzing Metal©rganic Framework and their Bifunctional OER/ORR Catalytic Activity for Zn-Air Rechargeable Batteries. <b>2020</b> , 41, 310-316		19
730	Pinecone biomass-derived activated carbon: the potential electrode material for the development of symmetric and asymmetric supercapacitors. <b>2020</b> , 44, 8591-8605		37
729	Characteristics of Activated Carbon. <b>2020</b> , 125-154		29
728	Synergistic effects of microstructures and active nitrogen content on the oxygen reduction reaction performance of nitrogen-doped carbon nanofibers via KOH activation heat treatment. <b>2020</b> , 55, 10725-10739		6
727	Evolution of structural inhomogeneity in polyacrylonitrile fibers by oxidative stabilization. <i>Carbon</i> , <b>2020</b> , 165, 225-237	0.4	21
726	Electrocatalytic activity of nitrogen-doped holey carbon nanotubes in oxygen reduction and evolution reactions and their application in rechargeable zinclir batteries. <i>Carbon</i> , <b>2020</b> , 166, 245-255	0.4	14
725	Nanoparticles of polydopamine for improving mechanical and flame-retardant properties of an epoxy resin. <b>2020</b> , 186, 107828		29
724	Fe-N-doped carbon catalysts prepared by hybrid PECVD/sputtering system for oxygen reduction reaction. <b>2017</b> , 679, 71-76		4
723	Investigation on Coking Performance with Sulfur / Phosphorous-containing Additive and Anti-coking SiO2/S Coating during Thermal Cracking of Light Naphtha. <b>2017</b> , 105, 5122-5127		4
722	Nitrogen-doped mesoporous graphene nanoflakes for high performance ionic liquid supercapacitors. <b>2020</b> , 353, 136463		9
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594	Extra-Low Dosage Graphene Oxide Cementitious Nanocomposites: A Nano- to Macroscale Approach <b>2021</b> , 11,	2
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582	A review on morphology, nanostructure, chemical composition, and number concentration of diesel particulate emissions <b>2022</b> , 1	2
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575	High-energydensity carbon-coated bismuth nanodots on hierarchically porous molybdenum carbide for superior lithium storage. <b>2022</b> , 432, 134276	O
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568	Investigation of the synergistic effect and kinetic behavior of anthracite and biochar during co-combustion process in pure oxygen atmosphere. <b>2022</b> , 101, 1-18		1
567	Effectively tuning electromagnetic absorption of carbon-based nanocomposites by phase transition. <i>Carbon</i> , <b>2022</b> , 190, 47-56	10.4	0
566	Oxygen adsorption in pores promotes its reduction on metal-free carbon catalysts: A case of carbon blacks. <i>Carbon</i> , <b>2022</b> , 189, 230-239	10.4	1
565	One-step sonochemical fabrication of biomass-derived porous hard carbons; towards tuned-surface anodes of sodium-ion batteries <b>2021</b> , 611, 578-587		6
564	Insight into soot formed in coal combustion flame: Evolution of physiochemical structure, oxidation reactivity. <b>2022</b> , 312, 122948		1
563	Experimental study of thiophene and ferrocene in synthesis of single-walled carbon nanotubes in rich premixed hydrogen/air flames. <b>2022</b> , 238, 111939		O
562	Restricted diffusion preparation of fully-exposed Fe single-atom catalyst on carbon nanospheres for efficient oxygen reduction reaction. <b>2022</b> , 305, 121058		5
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560	Insight into Mass Transfer Mechanism and Equilibrium Modeling of Heavy Metals Adsorption on Hierarchically Porous Biochar.		
559	In-Situ Encapsulation of FeCo Alloy in Nitrogen-Doped Carbon Framework as Advanced Bifunctional Cathode Catalysts for Zn-Air Batteries.		
558	Material Design and Optimisation of Electrochemical Li-Ion Storage Properties of Ternary Silicon Oxycarbide/Graphite/Tin Nanocomposites <b>2022</b> , 12,		0
557	Sustainable silicon anodes facilitated via a double-layer interface engineering: Inner SiO x combined with outer nitrogen and boron co-doped carbon.		1
556	Catalytic steam reforming of simulated bio-oil for green hydrogen production using highly active LaNixCo1IO3 perovskite catalysts.		1
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554	Archaeometric Study of Pictorial Stratigraphies from a Togatus Roman Sculpture found in Salamanca (Spain). 88, 193-207		
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552	Effects of decompressing carbonization on the preparation of needle coke from FCC decant oil. <b>2022</b> , 162, 105454	O
551	Microstructure regulation of pitch-based soft carbon anodes by iodine treatment towards high-performance potassium-ion batteries <b>2022</b> , 615, 485-493	3
550	Intercalation pseudocapacitance of hollow carbon bubbles with multilayered shells for boosting K-ion storage. <b>2022</b> , 10, 2075-2084	1
549	Activated carbon aging processes characterization by Raman spectroscopy. 1	Ο
548	Hollow Beaded FeC/N-Doped Carbon Fibers toward Broadband Microwave Absorption <b>2022</b> , 14, 3084-3094	5
547	Green self-activation engineering of metalBrganic framework derived hollow nitrogen-doped carbon spheres towards supercapacitors. <b>2022</b> , 10, 2932-2944	3
546	DOPO/Silicon/CNT Nanohybrid Flame Retardants: Toward Improving the Fire Safety of Epoxy Resins <b>2022</b> , 14,	1
545	Achievement and electrochemical responsiveness of advanced boron-doped ultrananocrystalline diamond on highly ordered titanium dioxide nanotubes. <b>2022</b> , 121, 108793	1
544	Design and Manufacturing of Si-Based Non-Oxide Cellular Ceramic Structures through Indirect 3D Printing <b>2022</b> , 15,	1
543	Morphological Characterization of the Microcrystalline Structure of Tectonic Coal and Its Intrinsic Connection with Ultra-micropore Evolution. <b>2022</b> , 36, 1482-1494	1
542	Optimizing the Properties of Hybrids Based on Graphene Oxide for Carbon Dioxide Capture <b>2022</b> , 61, 1332-1343	1
541	Atomic Structure Modification of Fe-N-C Catalysts via Morphology Engineering of Graphene for Enhanced Conversion Kinetics of LithiumBulfur Batteries. 2110857	5
540	Microwave-induced defective PdFe/C nano-electrocatalyst for highly efficient alkaline glycerol oxidation reactions. <b>2022</b> , 409, 139977	1
539	Investigating the effect of thickness on the structural and magnetic properties of carbon thin film. <i>Carbon</i> , <b>2022</b> , 191, 205-214	O
538	Turning carbon black into hollow carbon nanospheres to encapsulate Fe2O3 as high-performance lithium-ion batteries anode. <b>2022</b> , 332, 111681	0
537	Mesoporous and defective activated carbon cathode for AlCl4Danion storage in non-aqueous aluminium-ion batteries. <i>Carbon</i> , <b>2022</b> , 191, 195-204	2
536	Structural Properties and Composition of Graphite-Like Carbon Films Obtained by Pulsed Laser Deposition. <b>2021</b> , 66, 580	
535	Effect of carbon residues structures on burnout characteristic by FTIR and Raman spectroscopy <b>2022</b> , 272, 120947	1

534	Pyranoid-O-dominated graphene-like nanocarbon for two-electron oxygen reduction reaction. <b>2022</b> , 307, 121173	2
533	Increasing the efficiency of carbon coating on olivine-structured cathodes by choosing a carbon precursor. <b>2022</b> , 907, 116059	O
532	Influence of heat treatment and electrochemical treatment on the properties of PANI electrodeposited on carbon fiber felt. <b>2022</b> , 123, 108867	2
531	Enhanced electrochemical performances of FeS/PC composites as anode materials for lithium-ion batteries. <b>2022</b> , 137, 109211	3
530	Water droplet bouncing on pre-frosted superhydrophobic carbon soot IA step forward in designing passive icephobic surfaces. <b>2022</b> , 123, 108850	Ο
529	Impact of chemical structure of coal on coke quality produced by coals in the similar category. <b>2022</b> , 162, 105432	2
528	Insight into mass transfer mechanism and equilibrium modeling of heavy metals adsorption on hierarchically porous biochar. <b>2022</b> , 287, 120558	1
527	Large-scale and low-cost synthesis of porous carbon on the surface of commercial chlorinated polymers under the action of an intense electron beam of microsecond duration. <b>2022</b> , 198, 110885	1
526	Interaction of vitrinites in similar middle-rank coals during coking process. <b>2022</b> , 316, 123334	0
525	Pore structure regulation of hierarchical porous carbon derived from coal tar pitch via pre-oxidation strategy for high-performance supercapacitor <b>2022</b> , 614, 298-309	8
524	Effect of ion-exchangeable calcium on carbonaceous particulate matter formation during coal pyrolysis. <b>2022</b> , 315, 123124	1
523	Recognizing the nitrogen/oxygen co-doped lithiophilicity chemistry toward molten Li infusion for fabricating composite Li metal anode. <b>2022</b> , 903, 163553	O
522	Transition metal and nitrogen-doped mesoporous carbons as cathode catalysts for anion-exchange membrane fuel cells. <b>2022</b> , 306, 121113	6
521	Helically aligned fused carbon hollow nanospheres with chiral discrimination ability 2022,	
520	The oxidative potential of fresh and aged elemental carbon-containing airborne particles: a review <b>2022</b> ,	О
519	Preparation of Mesocarbon Microbeads as Anode Material for Sodium-Ion Batteries by Thermal Polymerization of Coal Tar Pitch with Blending of Biomass Tar Pitch.	
518	Raman and infrared spectra of plutonium (IV) oxalate and its thermal degradation products. <b>2022</b> , 562, 153574	2
517	Calibrating Carbonization Temperatures of Wood Fragments Embedded within Pyroclastic Density Currents through Raman Spectroscopy. <b>2022</b> , 12, 203	Ο

516	Microwave-assisted synthesis of nitrogen-doped pineapple leaf fiber-derived activated carbon with manganese dioxide nanofibers for high-performance coin- and pouch-cell supercapacitors. <b>2022</b> , 7, 100434	2
515	Dual-pulse laser-induced incandescence to quantify carbon nanostructure and related soot particle properties in transient flows © oncept and exploratory study. <b>2022</b> , 112020	O
514	Silicon Monoxide Carbonized by Fluorocarbon As a Composite Material for Anodes of Lithium-Ion Batteries. <b>2021</b> , 66, 1228	O
513	Carbon Dots with an Emission in the Near Infrared Produced from Organic Dyes in Porous Silica Microsphere Templates <b>2022</b> , 12,	2
512	Physicochemical and cell toxicity properties of particulate matter (PM) from a diesel vehicle fueled with diesel, spent coffee ground biodiesel, and ethanol <b>2022</b> , 824, 153873	1
511	Synergistic mechanism of biochar-nano TiO2 adsorption-photocatalytic oxidation of toluene. <b>2022</b> , 229, 107200	3
510	Searching effective indicators of microstructural changes in bitumens during aging: A multi-technique approach. <b>2022</b> , 641, 128529	О
509	To stimulate, and to inhibit: A theoretical understanding of the sodium-catalytic mechanism of coke gasification. <b>2022</b> , 435, 135091	2
508	Catalytic Properties of Bulk (1日)Ni日W Alloys in the Decomposition of 1,2-Dichloroethane with the Production of Carbon Nanomaterials. <b>2022</b> , 63, 75-86	1
507	Decipher Factors Controlling Sulfonamides Adsorption Onto Mesoporous Carbon.	
506	Rational Design of Zr-Mofs Pyrolyzed to Pinpoint Rate-Directing Stage and Catalytic Functions of Surface Acidic Species in Homolytic H2o2 Scission.	
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505 504	Surface Acidic Species in Homolytic H2o2 Scission.  All alginate-derived high-performance T-NbO/C//seaweed carbon Li-ion capacitors 2022, 12, 5743-5748  Tailoring Microstructures of Carbon Fiber Reinforced Carbon Aerogel-Like Matrix Composites by Carbonization to Modulate Their Mechanical Properties and Thermal Conductivities.	0
505 504 503	Surface Acidic Species in Homolytic H2o2 Scission.  All alginate-derived high-performance T-NbO/C//seaweed carbon Li-ion capacitors 2022, 12, 5743-5748  Tailoring Microstructures of Carbon Fiber Reinforced Carbon Aerogel-Like Matrix Composites by Carbonization to Modulate Their Mechanical Properties and Thermal Conductivities.  Cellulose Nanocrystals: Precursor for Soft Carbon or Hard Carbon?.  Facile and template-free synthesis of porous carbon modified with FeOx for transfer	0
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497	PRISMA: A Robust and Intuitive Tool for High-Throughput Processing of Chemical Spectra**.	O
496	Synthesis of Super-Long Carbon Nanotubes from Cellulosic Biomass under Microwave Radiation <b>2022</b> , 12,	2
495	Gasification kinetics of char formed from waste polyvinyl chloride for efficient utilization in ironmaking process. 1	
494	Impact of Degree of Graphitization, Surface Properties and Particle Size Distribution on Electrochemical Performance of Carbon Anodes for Potassium-Ion Batteries.	O
493	High-performance manganese and nitrogen codoped carbon (Mn-N-C) oxygen reduction electrocatalyst from Mn2+ coordinated sodium alginate <b>2022</b> ,	O
492	An Experimental Investigation of The Effect of Platinum on The Corrosion of Cathode Carbon Support in a PEMFC <b>2022</b> ,	0
491	A General Multi-Interface Strategy toward Densified Carbon Materials with Enhanced Comprehensive Electrochemical Performance for Li/Na-Ion Batteries <b>2022</b> , e2105738	O
490	Scaling up the Process of Catalytic Decomposition of Chlorinated Hydrocarbons with the Formation of Carbon Nanostructures. <b>2022</b> , 10, 506	0
489	Mechanically Resilient Graphene Assembly Microspheres with Interlocked N-Doped Graphene Nanostructures Grown In Situ for Highly Stable Lithium Metal Anodes. 2113316	O
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487	Study on Structural Evolution of Synthetic Graphite Derived from Lignite Prepared by High Temperature High Pressure Method. <b>2022</b> , 12, 464	1
486	Sustainable Nitrogen Self-Doped Carbon Nanofibers from Biomass Chitin as Anodes for High-Performance Lithium-Ion Batteries. <b>2022</b> , 36, 4026-4033	1
485	Coupling Effect of Temperature, Gas, and Viscoelastic Surfactant Fracturing Fluid on the Chemical Structure of Deep Coal: An Experimental Study. <b>2022</b> , 36, 3468-3480	O
484	Release characteristics of AAEMs and physicochemical structural evolution of char during rapid coal pyrolysis. <b>2022</b> , 50, 268-274	1
483	Using Biomass Gasification Mineral Residue as Catalyst to Produce Light Olefins from CO, CO, and H Mixtures <b>2022</b> , e202200436	
482	An Insight into Gandharan Art: Materials and Techniques of Polychrome Decoration. <b>2022</b> , 5, 488-508	O
481	A Comparative Investigation of Chemically Reduced Graphene Oxide Thin Films Deposited via Spray Pyrolysis <b>2022</b> , 7, 11973-11979	O

480	Facile Edge Functionalization of Graphene Layers with a Biosourced 2-Pyrone. <b>2022</b> , 10, 4082-4093	O
479	Boosting electrocatalysis of oxygen reduction and evolution reactions with cost-effective cobalt and nitrogen-doped carbons prepared by simple carbonization of ionic liquids. <b>2022</b> ,	o
478	Size-strain line-broadening analysis of anatase/brookite (TiO)-based nanocomposites with carbon (C): XRPD and Raman spectroscopic analysis <b>2022</b> , 78, 214-222	
477	Influence of the Carbon Support on the Properties of Platinum Ittrium Nanoalloys for the Oxygen Reduction Reaction. <b>2022</b> , 5, 3319-3328	o
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475	Investigation of the Evolution of the Chemical Structure of Bituminous Coals and Lignite during Pyrolysis. <b>2022</b> , 12, 444	o
474	Sulfur- and Iron-Rich Mineralogical Features Preserved in Permafrost in the Canadian High Arctic: Analogs for the Astrobiological Exploration of Mars. <b>2022</b> , 9,	
473	Experimental study of the catalytic effect of iron on low-rank coal gasification <b>2022</b> , 12, 5730	О
472	Defective N-Doped Carbon Nanospheres Anchored Pd for Selective Hydrodeoxygenation of Bio-Models under Mild Conditions. 2200038	
471	Non-oxidative dehydrogenation of methanol to formaldehyde over bulk EGa2O3.	О
47 <sup>1</sup>	Non-oxidative dehydrogenation of methanol to formaldehyde over bulk EGa2O3.  Epoxy resin modified with chitosan derivatives and DOPO: Improved flame retardancy, mechanical properties and transparency. 2022, 109931	0
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461	Porous core-shell B-doped silicondarbon composites as electrode materials for lithium ion capacitors. <b>2022</b> , 531, 231345	1
460	[BMIM][OAc] coating layer makes activated carbon almost completely selective for CO2. <b>2022</b> , 437, 135436	3
459	An integrated optimization of composition and pore structure boosting electrocatalytic oxygen evolution of Prussian blue analogue derivatives. <b>2022</b> , 416, 140284	О
458	Study on synergistic mechanism of Co-hydrothermal liquefaction of microalgae and macroalgae. <b>2022</b> , 164, 105514	0
457	Silicon oxycarbide-tin nanocomposite derived from a UV crosslinked single source preceramic precursor as high-performance anode materials for Li-ion batteries. <b>2022</b> , 27, 101424	0
456	Impact of pre-existing crystal lattice defects on the accumulation of irradiation-induced damage in a C/C composite. <b>2022</b> , 564, 153684	0
455	Three-dimensional graphene-like homogeneous carbon architecture loaded with gold-platinum for the electrochemical detection of circulating tumor DNA. <b>2022</b> , 24, 100892	Ο
454	Self-redox reaction of carbon in molten salt for anode materials of lithium/sodium-ion batteries. <b>2022</b> , 909, 164711	0
453	Synthesis, characterization and performance of nanostructured 2D turbostratic graphite particles derived from the solid-state reaction between carbides. <b>2022</b> , 151, 111826	2
452	Waste chicken bone-derived porous carbon materials as high performance electrode for supercapacitor applications. <b>2022</b> , 51, 104378	1
451	Efficient preparation of P-doped carbon with ultra-high mesoporous ratio from furfural residue for dye removal. <b>2022</b> , 292, 120954	1
450	A study of porous carbon structures derived from composite of cross-linked polymers and reduced graphene oxide for supercapacitor applications. <b>2022</b> , 51, 104476	0
449	Morphology and nanostructure of flame-formed soot particles from combustion of typical municipal solid waste. <b>2022</b> , 232, 107269	1
448	Structural features of residue carbon formed by gasification of different coal macerals. <b>2022</b> , 320, 123918	0
447	Direct synthesis of P/O-enriched pitch-based carbon microspheres from a coordinated emulsification and pre-oxidation towards high-rate potassium-ion batteries. <i>Carbon</i> , <b>2022</b> , 194, 176-184 <sup>10.4</sup>	2
446	Bio-derived hard carbon nanosheets with high rate sodium-ion storage characteristics. <b>2022</b> , 32, e00407	0
445	Electrochemical sensors for hydroquinone and catechol based on nano-flake graphite and activated carbon sensitive materials. <b>2022</b> , 287, 117079	

444	Ionic liquid-derived FeCo alloys encapsulated in nitrogen-doped carbon framework as advanced bifunctional catalysts for rechargeable Zn-air batteries. <b>2022</b> , 908, 164565	6
443	Air-breathing cathodes for microbial fuel cells based on iron-nitrogen-carbon electrocatalysts <b>2022</b> , 146, 108103	2
442	Facile fabrication of intrinsically fire-safety epoxy resin cured with phosphorus-containing transition metal complexes for flame retardation, smoke suppression, and latent curing behavior. <b>2022</b> , 442, 136097	2
441	Effects of CO2 adsorption on molecular structure characteristics of coal: Implications for CO2 geological sequestration. <b>2022</b> , 321, 124155	O
440	Waste cooking oil biodiesel and petroleum diesel soot from diesel bus: A comparison of morphology, nanostructure, functional group composition and oxidation reactivity. <b>2022</b> , 321, 124019	O
439	Monitoring flame soot maturity by variable temperature Raman spectroscopy. <b>2022</b> , 321, 124006	O
438	Raman studies of amorphous nanocarbon obtained by laser sputtering. <b>2021</b> , 2103, 012093	O
437	Influence of the Heating Rate on the Quality of Metallurgical Coke <b>2021</b> , 6, 34615-34623	1
436	Characterization of Graphenic Carbon Produced by Pulsed Laser Ablation of Sacrificial Carbon Tapes. <b>2021</b> , 11, 11972	1
435	Synergistic Coupling of Fe2O3 and Carbon Paper that Enables Photocatalytic Mineralization of Organic Contaminants in the Absence of Chemical Oxidants under Visible Light. <b>2022</b> , 2, 232-241	O
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433	Nanostructured Fe-N-C as Bifunctional Catalysts for Oxygen Reduction and Hydrogen Evolution. <b>2021</b> , 11, 1525	1
432	Puffing Up Hollow Carbon Nanofibers with High-Energy Metal-Organic Frameworks for Capacitive-Dominated Potassium-Ion Storage. <b>2021</b> , e2105767	2
431	Quantitative Evidence for the Dependence of Highly Crystalline Single Wall Carbon Nanotube Synthesis on the Growth Method <b>2021</b> , 11,	2
430	A Blueprint for the Synthesis and Characterization of Thiolated Graphene <b>2021</b> , 12,	O
429	Understanding the slag transformation behaviors during entrained-flow gasification based on comparative analysis of slag properties. <b>2022</b> , 17,	O
428	Defect engineering of carbons for energy conversion and storage applications.	2
427	Electrochemical Performance of Carbon-Rich Silicon Carbonitride Ceramic as Support for Sulfur Cathode in Lithium Sulfur Battery <b>2022</b> , 12,	O

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424	Microporous Carbons Derived from d-Fructose Carbon with Excellent Microwave Absorption Performance.	1
423	Synthesis of Fe-doped carbon hybrid composed of CNT/flake-like carbon for catalyzing oxygen reduction. 1	O
422	Modeling char surface area during coal pyrolysis: Validation of relationship between pore structure and polymer network.	
421	Taming electrons in Pt/C catalysts to boost the mesokinetics of hydrogen production. 2022,	Ο
420	Rational construction and decoration of Li5Cr7Ti6O25@C nanofibers as stable lithium storage materials. <b>2022</b> ,	14
419	Hard Carbons for Use as Electrodes in Li-S and Li-ion Batteries <b>2022</b> , 12,	2
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416	Co-carbonization of ethylene tar and fluid catalytic cracking decant oil: Development of high-quality needle coke feedstock. <b>2022</b> , 322, 124170	1
415	The structural evolution and mutation of graphite derived from coal under the influence of natural igneous plutonic intrusion. <b>2022</b> , 322, 124066	Ο
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408	Image_2.TIF. <b>2020</b> ,	
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403	Balancing Between Polarization and Conduction Loss toward Strong Electromagnetic Wave Absorption of Hard Carbon Particles with Morphology Heterogeneity <b>2022</b> ,	2
402	A Template Approach to Designing and Synthesizing Hierarchical Porous Carbon with Tri-Modal Pore Structure and its Application for High Performance Oxygen Reduction Electrocatalyst Support.	
401	Towards Enhanced Sodium Storage of Hard Carbon Anodes: Regulating the Oxygen Content in Precursor by Low-Temperature Hydrogen Reduction.	
400	Multi-Interfacial Magnetic Carbon Nanotubes Encapsulated Hydrangea-Like Nimo/Moc/N-Doped Carbon Composites for Efficient Microwave Absorption.	O
399	Ni3fe Nanoparticles Encapsulated by N-Doped Carbon Derived from Mofs for Oxygen Evolution Reaction.	
398	The Catalytic Effect Of Inner Minerals On the Combustion of Oil Shale Char: Characteristics and Mechanism.	
397	Premelting Anomalies in Pyromellitic Dianhydride: Negative Thermal Expansion, Accelerated Radiation Damage, and Polymorphic Phase Transition. <b>2022</b> , 126, 7648-7659	
396	Synergistic Effect, Structural and Morphology Evolution, and Doping Mechanism of Spherical Br-Doped Na V (PO) F/C toward Enhanced Sodium Storage <b>2022</b> , e2201719	4
395	Pomegranate-like mesoporous double carbon-coated Fe2P nanoparticles as advanced anode materials for sodium-ion batteries.	O
394	Synergistic effect of volatile inherent minerals on catalytic pyrolysis of wheat straw over a Fellani catalyst. <b>2022</b> , 124216	0
393	Biomimetically Inspired Highly Homogeneous Hydrophilization of Graphene with Poly(l-DOPA): Toward Electroconductive Coatings from Water-Processable Paints.	1
392	Photocatalytic Role of Atmospheric Soot Particles under Visible-Light Irradiation: Reactive Oxygen Species Generation, Self-Oxidation Process, and Induced Higher Oxidative Potential and Cytotoxicity <b>2022</b> ,	0
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389	Tailoring carbon chains for repairing graphite from spent lithium-ion battery toward closed-circuit recycling. <b>2022</b> ,		Ο
388	Less energy-intensive synthesis of mesoporous multi-oriented graphite microspheres with low defect concentration for advanced potassium-ion battery anodes. <b>2022</b> , 443, 136545		Ο
387	Texture control of pyrolytic carbon coatings and effects of coating thickness on the tensile properties of SiC fibers. <b>2022</b> , 287, 126234		Ο
386	Construction of hollow core-shelled nitrogen-doped carbon-coated yttrium aluminum garnet composites toward efficient microwave absorption <b>2022</b> , 622, 181-191		0
385	Pigments identification and analysis of the state of conservation of the decorative elements of the castle of Coca (XV-XVI AC, Segovia, Spain) by Raman Spectroscopy. <b>2022</b> , 2204, 012010		
384	Evaluation of graphitization and tensile property in microwave plasma treated carbon fiber. <b>2022</b> , 126, 109094		Ο
383	Nonradical-dominated peroxydisulfate activation by nitrogen-rich hierarchical porous graphite carbon for efficient degradation of tetracycline. <i>Carbon</i> , <b>2022</b> ,	10.4	Ο
382	Influencing mechanisms of deposition bias voltage on superlubricious a-C:H films: Key role of nanoclustering structures in controlling structural evolution of transfer film. <i>Carbon</i> , <b>2022</b> ,	10.4	Ο
381	Structure and electrical transport properties of electrospun carbon nanofibers/carbon nanotubes 3D hierarchical nanocomposites: effect of the CCVD synthesis conditions.		О
380	Full Lignin-Derived Electrospun Carbon Materials as Electrodes for Supercapacitors. 2022, 9,		Ο
379	Carbon nanotubes derived from waste cooking oil for the removal of emerging contaminants.		1
378	Direct Laser Writing Carbonization of Polyimide Films Enabled Multilayer Structures for the Use of Interfacial Solar-Driven Water Evaporation.		О
377	Temperature-sensing performance of polymer-derived SiAlCN ceramics up to 1000 ℃. <b>2022</b> ,		
376	Dielectric and electromagnetic properties of amorphous PDCs-Si(Al)CNO with different Al contents in X-band. <b>2022</b> ,		
375	Multi-interfacial magnetic carbon nanotubes encapsulated hydrangea-like NiMo/MoC/N-doped carbon composites for efficient microwave absorption. <i>Carbon</i> , <b>2022</b> ,	10.4	2
374	Diamond hollow cathode with axial magnetic field for high-density cold plasma source. <b>2022</b> , 15, 06100	<b>)</b> 6	
373	Enhancement of the interlaminar performance of silica/phenolic laminates after high-temperature pyrolysis using a boron carbide/silicon carbide fibre z-pin. <b>2022</b> , 219, 110770		

372	Infrared heated co-pyrolysis behavior of polyethylene and corn stover via optimization of secondary reactions. <b>2022</b> , 165, 105565	O
371	Green and universal sulfur doping technique coupled with construction of conductive network for enhanced kinetics of Li-ion capacitors. <b>2022</b> , 258, 117749	O
370	Porous Heteroatom-Doped Carbons: Efficient Catalysts for Selective Oxidation of Alcohols by Activated Persulfate.	
369	Environmentally Friendly Bifunctional Catalyst for ORR and OER from Coconut Shell Particles. <b>2022</b> , 12, 106-123	O
368	Effect of Different Forms of Sodium and Temperature on Microcrystalline Structure of Soot Derived from Yimin Lignite Pyrolysis.	
367	Nano Carbon-Based Carbon Catalysts: Types, Preparation, and Characterization. 2022, 41-55	
366	Tuning the structure and electrochemical performance of pinecone-derived porous carbon for potassium-ion battery anodes using molten ZnCl2.	O
365	Carbon-Free Reversible Air Electrodes based on Perovskite Oxide and Conductive Oxide for Rechargeable Zinc-Air Batteries. <b>2022</b> , 169, 050534	1
364	Synergistically tuning the graphitic degree, porosity, and the configuration of active sites for highly active bifunctional catalysts and Zn-air batteries.	2
363	Resistive organic memory devices based on nitrogen-doped CNTs/PSS composites.	
362	Study on high-pressure behaviour of spherical carbon black nanoparticles with coreBhell structure.	O
361	Carbon materials toward efficient potassium storage: Rational design, performance evaluation and potassium storage mechanism. <b>2022</b> ,	O
360	Efficient oxygen electrocatalysts with highly-exposed Co-N4 active sites on N-doped graphene-like hierarchically porous carbon nanosheets enhancing the performance of rechargeable Zn-air batteries.	4
359	A phosphorus/silicon/triazine-containing flame retardant towards flame retardancy and mechanical properties of epoxy resin.	O
358	Raman Signatures of Detonation Soot.	1
357	Adsorption of helivalent chromium on mechanically activated graphite. <b>2022</b> , 109152	O
356	Raman Spectroscopy of Nascent Soot Oxidation: Structural Analysis During Heating. 10,	О
355	Tailoring microstructures of carbon fiber reinforced carbon aerogel-like matrix composites by carbonization to modulate their mechanical properties and thermal conductivities. <i>Carbon</i> , <b>2022</b> , 196, 807-818	10.4 0

354	Low temperature thermally reduced graphene oxide directly on Ni-Foam using atmospheric pressure-chemical vapour deposition for high performance supercapacitor application. <b>2022</b> , 52, 104967	O
353	Facile and scalable preparation of cage-like mesoporous carbon from lignin-based phenolic resin and its application in supercapacitor electrodes. <i>Carbon</i> , <b>2022</b> , 196, 819-827	3
352	Understanding the Oxidation Kinetics and Structure of Diesel Soot During Oxidation Process.	
351	Elemental Carbon Concentration as the Main Factor in Gas-Phase Graphene Synthesis: Quantitative Fourier-Transform Infrared Spectroscopy Study.	
350	Synchronously promoted mechanical and biotribological properties of carbon fiber composites by constructing Si3N4 nanowires@pyrolytic carbon intertwined network. <b>2022</b> ,	1
349	On the Development of Ultradurable Extremely Water-Repellent and Oleophobic Soot-Based Fabrics with Direct Relevance to Sperm Cryopreservation.	2
348	A template approach to designing and synthesizing hierarchical porous carbon with tri-modal pore structure and its application for high performance oxygen reduction electrocatalyst support. <b>2022</b> , 112073	O
347	Design and synthesis of liquid crystal copolyesters with high-frequency low dielectric loss and inherent flame retardancy. <b>2022</b> ,	О
346	Preparation of SiO2/GO/CF multi-scale reinforcements based on electrostatic interaction: a non-destructive and simple method to construct multi-level hybrid interface layers of carbon fiber reinforced thermoplastic resin composites. <b>2022</b> , 107053	О
345	Mechanochemical Synthesis of Nitrogen-Doped and Sulfur-Doped Multilayer Graphene for Use in Bifunctional Oxygen Electrodes. <b>2022</b> , 169, 064515	
344	Electrochemical grafting of a pyridinium-conjugated assembly on graphite for H2O2 electrochemical production.	
343	Decoupled temperature and pressure hydrothermal synthesis of carbon sub-micron spheres from cellulose. <b>2022</b> , 13,	3
342	Understanding of Sodium Storage Mechanism in Hard Carbons: Ongoing Development under Debate. 2200715	10
341	H2 from biofuels and carriers: gas-phase and surface ethanol conversion pathways on Rh/Al2O3 investigated by annular microreactor coupled with Raman and FTIR spectroscopy. <b>2022</b> ,	1
340	Improving electron and ion transport by constructing 3D graphene nanosheets sandwiched between porous carbon nanolayers produced from resorcinol-formaldehyde resin for high-performance supercapacitor electrodes. <b>2022</b> , 37, 564-574	
339	One-step production of N, S co-doped honeycomb-like activated carbon from instant dry yeast for high gravimetric and volumetric performance supercapacitors. <b>2022</b> , 127, 109165	O
338	Decipher the molecular descriptors and mechanisms controlling sulfonamide adsorption onto mesoporous carbon: Density functional theory calculation and partial least-squares path modeling. <b>2022</b> , 436, 129299	O
337	Feasible coupling of CH4/H2 mixtures to H2 storage in liquid organic hydrogen carrier systems. <b>2022</b> , 541, 231721	O

336	Chromium doped NASICON-structured Na3MnTi(PO4)3/C cathode for high-performance sodium-ion batteries. <b>2022</b> , 649, 129340	1
335	Ni3Fe nanoparticles encapsulated by N-doped carbon derived from MOFs for oxygen evolution reaction. <b>2022</b> , 919, 165799	O
334	Influence of boron trifluoride complex addition on structure and composition of mesophase pitch from FCC decant oil via two-stage thermotreatment. <b>2022</b> , 325, 124801	0
333	Experimental study on effects of multistage reactant and air jet velocities on self-preheating characteristics and NO emission of burning pulverized coal. <b>2022</b> , 325, 124879	O
332	Raman and ATR-FTIR analyses of medieval wall paintings from al-Qarawiyyin in Fez (Morocco). <b>2022</b> , 280, 121557	0
331	Designing and preparing a 3D BverpassIhierarchical porous carbon membranes free-standing anode for sodium ion battery. <b>2022</b> , 448, 137628	1
330	Regenerated Cellulose Fibers as Defined Precursor Material for Activated Carbon.	
329	Topological Defect and Sp3/Sp2 Carbon Interface Derived from Zif-8 with Linker Vacancies for Oxygen Reduction Reaction.	
328	Two-Dimensional Hexagonal-Shaped Mesoporous Carbon Sheets for Supercapacitors.	1
327	The Structure and ferromagnetism of carbon nanofibers from polyacrylonitrile/polyvinylpyrrolidone. <b>2022</b> , 32, 1-10	
326	Disposable Paper-Based Biosensors: Optimizing the Electrochemical Properties of Laser-Induced Graphene. <b>2022</b> , 14, 31109-31120	2
325	Discrimination of different amorphous carbon by low fluence laser irradiation. <b>2022</b> , 100195	O
324	Development of iron supported carbon foam catalyst for Fischer Tropsch synthesis.	
323	Laser synthesis of iron nanoparticles as effective catalysts for the growth of vertically aligned MWCNTs with amorphous shell. <b>2022</b> , 103320	
322	Effect of mesoporous carbon on oxygen reduction reaction activity as cathode catalyst support for proton exchange membrane fuel cell. <b>2022</b> ,	0
321	Charge Transport at the Interface between Graphene Oxide and Silk in Highly Flexible Commercial Silk-Based e-Textile Treated at High Temperatures.	
320	Integrated photocatalyst adsorbents based on porphyrin anchored to activated carbon granules for water treatment. <b>2022</b> , 8, 100191	2
319	Engineering Electronic Platinumarbon Support Interaction to Tame Carbon Monoxide Activation. <b>2022</b> ,	O

318	Integrating N-Doped Porous Carbon-Encapsulated Ultrafine SnO2 with MXene Nanosheets via Electrostatic Self-Assembly as a Superior Anode Material for Lithium Ion Capacitors.	1
317	Understanding the role of exhaust gas recirculation in gasoline/diesel dual-fuel combustion soot features. 146808742211097	Ο
316	Novel approach to recycled carbon fiber suitability assessment for additive technologies. <b>2022</b> , 154251	О
315	Steam Reforming Of Tar In Hot Syngas Cleaning By Different Catalysts: Removal Efficiency And Coke Layer Characterization.	Ο
314	Carbon Nanofibers Grown in CaO for Self-Sensing in Mortar. <b>2022</b> , 15, 4951	0
313	The fabrication of phytate and LDH-based hybrid nanosheet towards improved fire safety properties and superior smoke suppression of intumescent flame retardant LDPE. <b>2022</b> , 714, 179271	O
312	Laser synthesis of iron nanoparticles as effective catalysts for the growth of vertically aligned MWCNTs with amorphous shell. <b>2022</b> , 160, 103323	
311	Impact of fossil fuel usage reduction policy on PM2.5 level changes in a Lesser Poland Area. <b>2022</b> , 85, 104036	
310	Incipient sooting tendency of oxygenated fuels doped in ethylene counterflow diffusion flames. <b>2022</b> , 244, 112284	1
309	Effect of ultramicropores and inner space of carbon materials on the capacitive sodium storage performance. <b>2022</b> , 73, 35-40	
308	Towards enhanced sodium storage of hard carbon anodes: Regulating the oxygen content in precursor by low-temperature hydrogen reduction. <b>2022</b> , 51, 620-629	3
307	Effect of alkali (K/Na) metal vapor on the metallurgical properties of coke in CO2D2N2 mixed atmosphere. <b>2022</b> , 257, 124748	1
306	Mechanistic insights into ion-beam induced reduction of graphene oxide: An experimental and theoretical study. <b>2022</b> , 199, 110355	
305	Carbon coated cobalt catalysts for direct synthesis of middle n-alkanes from syngas. <b>2022</b> , 327, 124889	Ο
304	Characterisation of graphite-based material for dosimetry in the mammographic energy range. <b>2022</b> , 201, 110405	О
303	Discrete Graphitic Crystallites Promise High-rate Ion Intercalation for KC 8 Formation in Potassium Ion Batteries. 2201574	5
302	An Unusual Carbonteramic Composite with Gradients in Composition and Porosity Delivering Outstanding Thermal Protection Performance up to 1900°C. 2204133	1
301	Pitch resin addition induced evolution of composition, microstructure and mechanical property of C/C-SiC-ZrC composites. <b>2022</b> ,	О

300	Effect of Ceo2 Redox Properties on the Catalytic Activity of Pt-Ceox Over Irreducible Sio2 Support for Methylcyclohexane (Mch) Dehydrogenation.	
299	Molten Salt Synthesis of Carbon Anode for High-Performance Sodium-Ion Batteries.	
298	Surface Nanostructure Effects on Dopamine Adsorption and Electrochemistry on Glassy Carbon Electrodes. <b>2022</b> , 126, 13399-13408	2
297	Simple cleaning and regeneration of tip-enhanced Raman spectroscopy probe with UV sources.	
296	Raman Spectroscopy of Lignite Gasification Char Morphotypes. <b>2022</b> , 15, 6057	
295	Surface Electrochemistry of Carbon Electrodes and Faradaic Reactions in Capacitive Deionization.	1
294	Study on Raman multi-peak fitting and structure quantitative analysis of PAN-based carbon fibers. <b>2022</b> , 57, 15385-15412	0
293	Influence of Raman Spectroscopy Test Conditions on the Results of Carbon Chemical Structure of Chars. <b>2022</b> , 15, 5627	0
292	Differences of the pyrolytic behaviors and pyrolysis products of coal pitch from different sources.	0
291	A New Figure of Merit for Solar Charging Systems: Case Study for Monolithically Integrated Photosupercapacitors Composed of a Large-Area Organic Solar Cell and a Carbon Double-Layer Capacitor. 2200614	O
<b>2</b> 90	One-Step Catalytic Activation Promoting Pore Development of Zhundong Coal-Based Activated Coke: A Compared Study with Conventional Carbonization Activation Combined Process. 2022, 36, 9171-9181	0
289	Open or Closed? Elucidating the Correlation between Micropore Nature and Sodium Storage Mechanisms in Hard Carbon.	O
288	Activity of Catalytic Ceramic Papers to Remove Soot Particles Study of Different Types of Soot. <b>2022</b> , 12, 855	1
287	Raman Spectroscopic Study of Pyrene in Cosmic Dust Analogues: Evolution from the Gas to the Solid Phase.	1
286	A novel hierarchically-porous diamondized polyacrylonitrile sponge-like electrodes for acetaminophen electrochemical detection. <b>2022</b> , 141083	0
285	Nitrogen and Sulfur Codoped Porous Carbon Directly Derived from Potassium Citrate and Thiourea for High-Performance Supercapacitors. <b>2022</b> , 38, 10331-10337	O
284	Porous heteroatom-doped carbons: efficient catalysts for selective oxidation of alcohols by activated persulfate.	0

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282	Effective separation of petroleum oil-water mixtures via flexible and re-usable hydrophobic soot-coated melamine sponge. <b>2022</b> , 49, 103032	О
281	High efficient and clean utilization of coal for the carbothermic reduction of silica. <b>2022</b> , 53, 102602	Ο
280	Microstructure graphitization evolution and multi-scale, multi-mechanism synergistic enhancement of ultra-high strength carbon-graphite materials. <b>2022</b> , 128, 109271	
279	The catalytic effect of inner minerals on the combustion of oil shale char: Characteristics and mechanism. <b>2022</b> , 236, 107426	
278	N-doped graphene nanolayer originated from the one-step template-induction methodology as anode for high-performance Li-ion capacitor. <b>2022</b> , 200, 84-93	O
277	Mechanistic insights into the chemical structural changes of lignite on potential formation of the polycyclic aromatic hydrocarbons. <b>2022</b> , 307, 135916	
276	Ni/Ni3ZnC0.7 modified alginate-derived carbon composites with porous structures for electromagnetic wave absorption. <b>2022</b> , 200, 166-177	O
275	Highly porous and conductive functional carbon fibers from electrospun phosphorus-containing lignin fibers. <b>2022</b> , 200, 134-148	O
274	Solvent-mediated selectivity control of furfural hydrogenation over a N-doped carbon-nanotube-supported Co/CoOx catalyst. <b>2022</b> , 318, 121838	O
273	Significantly enhanced gas separation properties of microporous membranes by precisely tailoring their ultra-microporosity through bromination/debromination. <b>2023</b> , 451, 138513	O
272	Hydrothermally prepared composite of Na3V2(PO4)2F3 with gelatin and graphene used as a high-performance sodium ion battery cathode. <b>2022</b> , 926, 166857	O
271	Bio-Based Rigid Polyurethane Foams Modified with C-MOF/MWCNTs and TBPBP as Building Insulation Materials: Synergistic Effect and Corresponding Mechanism for Enhancing Fire and Smoke Safety. <b>2022</b> , 14, 3630	O
270	Cementitious nanocomposites engineered with high-oxidized graphene oxide: Spotting the nano to macro correlation. <b>2022</b> ,	1
269	Soot formation characteristics in hybrid pyrolysis of zero-carbon fuel ammonia and ethylene mixtures. 10,	O
268	A Facile Carbon Coating on Mg-Embedded SiO x Alloy for Fabrication of High-Energy Lithium-Ion Batteries. 2201426	1
267	Dopantfree edgefich mesoporous carbon: Understanding the role of intrinsic carbon defects towards oxygen reduction reaction. <b>2022</b> , 923, 116826	O
266	Understanding effects of potassium activator on the porous structure and adsorption performance of bluecoke-based porous powder during microwave heating. <b>2022</b> , 366, 120249	1
265	Evolution of mechanical properties of kerogen with thermal maturity. <b>2022</b> , 145, 105906	O

264	Eco-friendly sonochemical reduction of graphene oxide in water using TiO2 photocatalyst activated by sonoluminescence. <b>2022</b> , 605, 154820	0
263	Experimental study on morphology, nanostructure and oxidation reactivity of particles in diesel engine with exhaust gas recirculation (EGR) burned with different alternative fuels. <b>2022</b> , 261, 125249	Ο
262	Assembly and electrochemical testing of renewable carbon-based anodes in SIBs: A practical guide. <b>2022</b> , 75, 457-477	0
261	N-doped crumpled carbon nanotubes as advanced electrode material for supercapacitor. <b>2022</b> , 928, 167222	2
260	Visualising coke-induced degradation of catalysts used for CO2-reforming of methane with X-ray nano-computed tomography. <b>2022</b> , 5, 100068	0
259	Poly(hydroxybutyrate-co-hydroxyvalerate) as a biodegradable binder in a negative electrode material for lithium-ion batteries. <b>2022</b> , 606, 154933	O
258	Evaluating the effect of n-butanol additive on particulate matter emission in diesel engine. <b>2023</b> , 332, 126003	0
257	High-performance carbon molecular sieve membrane for C2H4/C2H6 separation: Molecular insight into the structure-property relationships. <b>2023</b> , 201, 24-36	O
256	Direct conversion of methane to zeolite-templated carbons, light hydrocarbons, and hydrogen. <b>2023</b> , 201, 535-541	1
255	Impact of PODE3 on soot oxidation reactivity at different stages in n-heptane/toluene diffusion flames. <b>2023</b> , 331, 125672	0
254	Enhanced tar removal in syngas cleaning through integrated steam catalytic tar reforming and adsorption using biochar. <b>2023</b> , 331, 125912	0
253	Comparative investigation on gasification performances of co-pyrolytic char from bio-oil distillation sludge and rapeseed cake: Decomposition, kinetic, structural and prediction characteristics. <b>2023</b> , 332, 125884	O
252	Metallurgical performance and structural characteristics of cokes of hypercoal prepared from the mixture of low-rank coal and biomass residue. <b>2023</b> , 332, 126069	1
251	Generation and characterization of coal-based needle coke produced by the co-carbonization of coal liquefaction pitch and anthracene oil. <b>2022</b> , 12, 25860-25871	1
250	Hierarchically porous N-doped carbon nanosheets with atomically dispersed Fe/Co dual-metallic sites for efficient and robust oxygen electrocatalysis in Znair batteries.	O
249	From ethene to propene (ETP) on tailored silicallumina supports with isolated Ni(ii) sites: uncovering the importance of surface nickel aluminate sites and the carbon-pool mechanism. <b>2022</b> , 12, 5861-5868	O
248	High-Rate Soft Carbon Anode in Potassium Ion Batteries:The Role of Chemical Structures of Pitches.	0
247	Extent of carbon surface oxygen affinity and its effects on the activity of metal-free carbon catalysts in oxygen reduction reaction: Interplay of porosity and N-, O- and S- enriched surface chemistry.	0

246	Fabrication of multi-purposed supercapacitors based on N-doped porous carbon framework. <b>2022</b> , 4, 100479	Ο
245	Soot characteristics from diffusion flames coupled with plasma. <b>2023</b> , 332, 126126	O
244	A review on the mineralogical and chemical composition of nanoparticles associated with coal fires.	О
243	Green Power Generation by Microbial Fuel Cells Using Pharmaceutical Wastewater as Substrate and Electroactive Biofilms (Bacteria/Biocarbon). <b>2022</b> , 2022, 1-11	O
242	Chitosan <b>E</b> e(III) Complexes via Green Preparation toward Flame Retardant and High-Mechanical-Strength Epoxy Composites.	O
241	Polyacrylonitrile-Coated Onion-like Carbon Nanoparticles for Carbon Nanofibers with Enhanced Strength and Toughness.	O
240	Novel Single-Particle Analytical Technique for Submicron Atmospheric Aerosols: Combined Use of Dark-Field Scattering and Surface-Enhanced Raman Spectroscopy. <b>2022</b> , 94, 13028-13035	1
239	Revealing Nanodomain Structures of Bottom-Up-Fabricated Graphene-Embedded Silicon Oxycarbide Ceramics. <b>2022</b> , 14, 3675	1
238	Deconvolution and quantification of defect types from the first order Raman spectra of graphene oxide derivatives. <b>2022</b> , 35, 100422	1
237	Enhanced piezoresistivity of polymer-derived SiCN ceramics by regulating divinylbenzene-induced free carbon. <b>2022</b> ,	Ο
236	Oxygen Reduction Reaction on Chromium Carbide-Derived Carbons. 2022, 58, 781-797	0
235	Review of morphological and chemical characteristics of particulates from compression ignition engines. 146808742211145	O
234	Sustainable Selective Propanol Production via Continuous Flow Conversion of Glycerol over Synergistic Bifunctional Catalysts: An Exploration into Factors Affecting Activity.	0
233	Lightweight, ultra-tough, 3D-architected hybrid carbon microlattices. <b>2022</b> ,	1
232	S-doped Porous Carbon Cage with Good Accommodation Ability As An Effective S Host for Li-S Battery.	0
231	Microstructural Characteristics of Graphite Microcrystals in Graphitized Coal: Insights from Petrology, Mineralogy and Spectroscopy. <b>2022</b> , 12, 1189	O
230	Evolution of the Hierarchical Molecular Structures of Tectonically Deformed Coals: Insights from First-Order Raman Spectra.	О
229	Insights into the Impact of Activators on the <code>Catalytic</code> Graphitization to Design Anode Materials for Lithium Ion Batteries.	O

228	Synthesis of hollow carbon spheres by chemical activation of carbon nanoparticles for their use in electrochemical capacitor. <b>2022</b> , 9, 100220	O
227	Rapid CO2 Gas Decompression Performance of Epoxy Coatings Containing Graphene Oxide-Zinc Oxide Hybrids. <b>2023</b> , 883-897	O
226	Three-Dimensional Holey Graphene Enwrapped Li 3 V 2 (PO $4$ ) 3 /N-Doped Carbon Cathode for High-Rate and Long-Life Li-Ion Batteries.	0
225	Thermally resistant and strong shape memory bismaleimide resin with intrinsic halogen-free and phosphorus-free flame retardancy.	O
224	Decarburization and ash characteristics during melting combustion of fine ash from entrained-flow gasifier. <b>2022</b> , 125676	O
223	Adaptable Phosphate Networks towards Robust, Reprocessable, Weldable, and Alertable-Yet-Extinguishable Epoxy Vitrimer. <b>2022</b> , 2022, 1-12	O
222	Large carbon dioxide adsorption in ZTC at medium pressure: Effects of surface functionalization. <b>2022</b> ,	1
221	The enhancement mechanism of the microwave-assisted toluene desorption for activated carbon regeneration based on the constructive interference. <b>2022</b> , 134542	O
220	Relevance of soot formation characteristics to equivalence ratio and CO2 addition of acetylene flame. <b>2022</b> , 412, 117978	0
219	Metal-organic-framework-derived electrocatalysts for alkaline polymer electrolyte fuel cells. <b>2022</b> , 550, 232135	3
218	A porous carbon based on the surface and structural regulation of wasted lignin for long-cycle lithium-ion battery. <b>2022</b> , 222, 1414-1422	O
217	Unveiling the structural transformations of the PW11Co@ZIF-67 nanocomposite induced by thermal treatment.	O
216	Unburned Carbon from Fly Ash as a Source of Graphite Materials. 1-17	О
215	Edge-hosted Atomic CoN4 Sites on Hierarchical Porous Carbon for Highly Selective Two-electron Oxygen Reduction Reaction.	O
214	Luminescent Carbon Dots from Wet Olive Pomace: Structural Insights, Photophysical Properties and Cytotoxicity. <b>2022</b> , 27, 6768	O
213	Bio-waste-derived-hard carbon anodes through a sustainable and cost-effective synthesis process for Sodium-ion batteries.	O
212	Biochar-derived activated carbons: a comprehensive assessment of kinetic and isotherm modeling for adsorptive removal of methylene blue dye contaminants.	O
211	S-doped porous carbon fibers with superior electrode behaviors in lithium ion batteries and fuel cells. <b>2022</b> , 100160	O

210	Topological defect and sp3/sp2 carbon interface derived from ZIF-8 with linker vacancies for oxygen reduction reaction. <b>2022</b> ,	0
209	Edge-hosted Atomic CoN4 Sites on Hierarchical Porous Carbon for Highly Selective Two-electron Oxygen Reduction Reaction.	1
208	Experimental investigation on the size-dependent maturity of soot particles in laminar premixed ethylene burner-stabilized stagnation flames. <b>2022</b> ,	0
207	Charge Transport in Functionalized Octopus-Shaped Multi-Walled Carbon Nanotube/Graphene Hybrids: Implications for Extremely Stretchable Conductors.	O
206	Flexible CO 2 Sensor Architecture with Selective Nitrogen Functionalities by One-Step Laser-Induced Conversion of Versatile Organic Ink. 2207406	0
205	Waterborne Eco-Sustainable Sol <b>G</b> el Coatings Based on Phytic Acid Intercalated Graphene Oxide for Corrosion Protection of Metallic Surfaces. <b>2022</b> , 23, 12021	1
204	Role of the Potential Range during Stress Testing of Platinum-Containing Electrocatalysts at Elevated Temperature. <b>2022</b> , 12, 1179	1
203	Triassic sauropodomorph eggshell might not be soft. <b>2022</b> , 610, E8-E10	О
202	Unraveling the eroded units of mountain belts using RSCM thermometry and cross-section balancing: example of the southwestern French Alps.	О
201	Enhanced Adsorption of Tetracycline by Thermal Modification of Coconut Shell-Based Activated Carbon. <b>2022</b> , 19, 13741	O
200	Fabrication of C/SiC composites by siliconizing carbon fiber reinforced nanoporous carbon matrix preforms and their properties. <b>2022</b> ,	0
199	Non-negligible Influence of Oxygen in Hard Carbon as an Anode Material for Potassium-Ion Batteries. <b>2022</b> , 14, 47674-47684	О
198	N-doped carbon materials produced by CVD with the compounds derived from LDHs. <b>2022</b> , 57, 18298-18322	О
197	Bi-functional CeO2 coated NiCo-MgAl core-shell catalyst with high activity and resistance to coke and H2S poisoning in methane dry reforming <b>2022</b> , 122141	2
196	Studying the thermal resistance of superhydrophobic carbon soot coatings for heat transfer management in cryogenic facilities. <b>2022</b> , 119590	0
195	Printing parameters affect the electrochemical performance of 3D-printed carbon electrodes obtained by fused deposition modeling. <b>2022</b> , 925, 116910	1
194	In Situ Exfoliated Graphene-Like Carbon Nanosheets Strongly Coupled with the Biochar Tube as the Cathode for an Application-Ready Zn-Air Battery.	0
193	Genetic linkage between carbonaceous materials and Triassic gold deposits in the Liaodong Peninsula, northeastern North China Craton: Insights from Raman spectroscopy and C O isotope analysis. <b>2022</b> , 150, 105182	O

192	Preparation of pyrolyzed CaO-containing carbon pellets: Effect of temperature on pyrolysis behavior and structural evolution. <b>2022</b> , 168, 105740	0
191	Towards high volumetric capacitance via embedding a porous biomass carbon with redox organic molecules. <b>2022</b> , 55, 105840	Ο
190	Templated Nitrogen-, Iron-, and Cobalt-Doped Mesoporous Nanocarbon Derived from an Alkylresorcinol Mixture for Anion-Exchange Membrane Fuel Cell Application. 14050-14061	3
189	Recent progress and multifunctional applications of fire-retardant epoxy resins. <b>2022</b> , 33, 104702	Ο
188	Catalytic and electrocatalytic performance of Sr(Ti0.3Fe0.7Ru0.07)O3-lfor applications in solid oxide fuel cells supplied with ethanol steam reforming mixtures. <b>2022</b> , 551, 232215	Ο
187	Solvent-induced molecular structure engineering of lignin for hierarchically porous carbon: Mechanisms and supercapacitive properties. <b>2022</b> , 189, 115831	Ο
186	Insight into carbon corrosion of different carbon supports for Pt-based electrocatalysts using accelerated stress tests in polymer electrolyte fuel cells. <b>2022</b> , 551, 232209	Ο
185	A novel green IFR system: Design of a self-assembled peanut shell-based flame retardant and its fire performance in EP. <b>2023</b> , 174, 107277	Ο
184	Computational investigation of hydrogen-induced phonon changes in carbon fiber. <b>2023</b> , 216, 111884	Ο
183	Understanding the reaction kinetics of diesel exhaust soot during oxidation process. <b>2023</b> , 311, 136980	O
182	Fine characterization of the macromolecular structure of Shanxi low-rank coal. 2023, 1273, 134359	О
181	Fischer-Tropsch synthesis over lignin-derived cobalt-containing porous carbon fiber catalysts. <b>2023</b> , 321, 122078	1
180	Electrochemical Properties of Iron Oxide Decorated Activated Carbon Cloth as a Binder-Free Flexible Electrode. <b>2022</b> , 25,	Ο
179	Alkaline hydrogel electrolyte from biosourced chitosan to enhance the rate capability and energy density of carbon-based supercapacitors.	Ο
178	Advances in soot particles from gasoline direct injection engines: A focus on physical and chemical characterisation. <b>2023</b> , 311, 137181	Ο
177	Production mechanism of high-quality carbon black from high-temperature pyrolysis of waste tire. <b>2023</b> , 443, 130350	Ο
176	Simplification of temperature-programmed oxidation method to characterize petroleum cokes. <b>2023</b> , 334, 126548	0
175	Influence of carbon support structure on cathode catalysts durability. <b>2023</b> , 611, 155637	Ο

174	Friction properties of bulk isotropic pyrocarbon materials based on different composite microstructures. <b>2022</b> ,	O
173	Plastic waste upgrade to olefins via mild slurry microwave pyrolysis over solid acids. <b>2022</b> , 140332	1
172	In situ preparation of molybdenum-dioxide-incorporated carbonized silk fiber and its application in supercapacitors. 10,	O
171	Permian-Triassic Bod basalts in the pre-Jurassic basement of the Arctic zone of the West Siberian platform. <b>2022</b> , 22, 624-643	O
170	Carbonaceous Nanoparticle Air Pollution: Toxicity and Detection in Biological Samples. 2022, 12, 3948	1
169	Elemental carbon and hydrogen concentrations as the main factors in gas-phase graphene synthesis: Quantitative fourier-transform infrared spectroscopy study. <b>2022</b> ,	O
168	Insight into the oxidation of glutathione mediated by black carbon from three typical emission sources. <b>2022</b> , 120647	O
167	The impacts of stress on the macromolecular structure of anthracites: Implications for the mechanochemical effects. <b>2022</b> , 104151	O
166	The doped Co on Rh/Ni@NiNC that weakened the catalytic performance for ammonia borane hydrolysis. <b>2022</b> ,	O
165	Fabrication of Novel Bentonite-Anthracite@Zetag (BT-An@Zetag) Composite for the Removal of Arsenic (V) from an Aqueous Solution. <b>2022</b> , 27, 7635	O
164	Highly conductive and flexible porous carbon nanofibers cloth for high-performance supercapacitor. <b>2022</b> , 56, 106108	O
163	Carbon dioxide adsorbents from flame-made diesel soot nanoparticles. <b>2023</b> , 859, 160140	O
162	Ultrastable Fe <b>N</b> II Fuel Cell Electrocatalysts by Eliminating Non-Coordinating Nitrogen and Regulating Coordination Structures at High Temperatures. 2204474	O
161	Catalytic hydrogenation of CO2 to light olefins by using K-doped FeCx catalysts derived from the Fe-chitosan complex. <b>2022</b> ,	O
160	High-rate soft carbon anode in potassium ion batteries: The role of chemical structures of pitches. <b>2023</b> , 203, 211-220	0
159	Insights into organic metagenesis using Raman spectroscopy and high resolution mass spectrometry: A case study of the Shahezi formation, deep Songliao basin, China. <b>2023</b> , 265, 104153	O
158	Boosting persulfate activation via paper mill sludge-based biochar for efficient degradation of bisphenol A: Inherent multiple active sites. <b>2023</b> , 455, 140795	1
157	A new strategy for mass production of single-atom catalysts for high performance of CO2 electrochemical reduction. <b>2023</b> , 455, 140595	O

156	Metal-organic framework-derived ZrO2 on N/S-doped porous carbons for mechanistic and kinetic inspection of catalytic H2O2 homolysis. <b>2023</b> , 203, 630-649	1
155	Macroscopic superlubricity enabled by the tribopair of nc-Ag/MoS2 and hydrogenated graphitic-like carbon films under high contact stress. <b>2023</b> , 611, 155814	O
154	Enhanced activation of peroxymonosulfate by abundant Co-Nx sites onto hollow N-doped carbon polyhedron for bisphenol A degradation via a nonradical mechanism. <b>2023</b> , 306, 122773	0
153	Microporous three dimensional ordered zeolite-templated carbon for efficient removal of VOCs: Experimental study and molecular dynamics simulation. <b>2023</b> , 334, 126849	O
152	Sustainable and scalable fabrication of high-performance hard carbon anode for Na-ion battery. <b>2023</b> , 557, 232534	0
151	Pyrolysis of Prussian blue for lignin-derived nitrogen-doped biocarbon to boost sodium storage. <b>2023</b> , 192, 116079	1
150	Enhancements of mixed surfactants on Wucaiwan coal biodegradation by Nocardia mangyaensis. <b>2023</b> , 266, 126501	O
149	Temperature-sensitivity of CNTs growth from tar model compound over Ni/Al2O3 with and without hydrogen addition. <b>2023</b> , 335, 127012	O
148	Metal decorated carbon nanotube aerogels from sodium polyacrylate crosslinking by divalent ions. <b>2023</b> , 10, 100235	0
147	Ti3C2Tx MXene@NiFe layered double hydroxide derived multiple interfacial composites with efficient microwave absorption. <b>2023</b> , 936, 168162	O
146	Acceleration of the semi-hydrogenation of alkynes over an N-doped porous carbon sphere-confined ultrafine PdCu bimetallic nanoparticle catalyst.	0
145	Topotactical Route to Multiwalled Cerium Oxide Nanotubes from MWCNTs. 2200167	O
144	Mg-Doped Na 4 Fe 3 (PO 4 ) 2 (P 2 O 7 )/C Composite with Enhanced Intercalation Pseudocapacitance for Ultra-Stable and High-Rate Sodium-Ion Storage. 2211257	0
143	Detonation Synthesis Nanodiamond Soot as a Promising Filler for Polymer Composites. <b>2022</b> , 8, 69	1
142	Effect of Pretreatment with Acids on the N-Functionalization of Carbon Nanofibers Using Melamine. <b>2022</b> , 15, 8239	2
141	Three-Dimensional Holey Graphene Modified Na4Fe3(PO4)2(P2O7)/C as A High-Performance Cathode for Rechargeable Sodium-Ion Batteries.	O
140	The review of advances in interfacial electrochemistry in Estonia: electrochemical double layer and adsorption studies for the development of electrochemical devices.	O
139	Metal <b>©</b> rganic Framework-Derived N-Doped Porous Carbon for a Superprotonic Conductor at above 100 °C. <b>2022</b> , 61, 20057-20063	O

138	Hybrid solid electrolyte interphases formed in conventional carbonate electrolyte enable high-voltage and ultra-stable magnesium metal batteries. <b>2022</b> ,	О
137	Nitrogen inclusion in carbon nanotubes initiated by boron doping and chlorination: Their use as electrocatalysts for oxygen reduction reaction. 9,	O
136	Towards a kerogen-to-graphite kinetic model by means of Raman spectroscopy. <b>2022</b> , 104292	О
135	Effect of Three-in-One Surface Modification of Spherical, Co-Free Li-Rich Cathode Material for Li-Ion Batteries (Li1.2Mn0.6Ni0.2O2) with Citric Acid.	1
134	The Effect of Silicon-Containing Minerals on Coal Evolution at High-Temperature Pre-Graphitization Stage. <b>2023</b> , 13, 20	O
133	Sulfur-Doped Carbon for Potassium-Ion Battery Anode: Insight into the Doping and Potassium Storage Mechanism of Sulfur.	1
132	High-Surface-Area Graphene Oxide for Next-Generation Energy Storage Applications. <b>2022</b> , 5, 18448-18461	О
131	Porous 3D Graphene from Sustainable Materials: Laser Graphitization of Chitosan. 2201228	O
130	Caramelization as a Key Stage for the Preparation of Monolithic Hard Carbon with Advanced Performance in Sodium-Ion Batteries.	О
129	Nitrogen and Oxygen Dual-doped Porous Carbon from Nature Macromolecular Chitosan for Fast and Stable Zinc-ion Hybrid Supercapacitors.	О
128	Optimization of Non-Pyrolyzed Lignin Electrodes for Sustainable Batteries. 2200396	О
127	Fully recyclable multifunctional adhesive with high durability, transparency, flame retardancy, and harsh-environment resistance. <b>2022</b> , 8,	1
126	Soot and charcoal as reservoirs of extracellular DNA. 2,	О
125	Evolution of microwave transmission decay in glass fiber reinforce epoxy composite induced by laser ablation carbonization. <b>2022</b> ,	O
124	Formation Mechanism of Thick Coal Seam in the Lower Indus Basin, SE Pakistan.	O
123	Structural evolution of the thermal conversion products of modified coal tar pitch.	О
122	Cellulose-based carbon membranes for gas separations - Unraveling structural parameters and surface chemistry for superior separation performance. <b>2022</b> ,	0
121	Biomass-derived nanostructured carbon materials for high-performance supercapacitor electrodes.	O

120	Effect of pressure on the evolution of vitrinite graphitized mesophases: An experimental study on anthracite under high temperature and pressure. <b>2023</b> , 104187	O
119	Laser-Patterned Porous Carbon/ZnO Nanostructure Composites for Selective Room-Temperature Sensing of Volatile Organic Compounds.	O
118	Orbital Hybridization States of Carbon Function the Alkali-Ion Storage Capability of Hard Carbons.	O
117	Pseudopyrolysis of Metal©rganic Frameworks: A Synchronous Nucleation Mechanism to Synthesize Ultrafine Metal Compound Nanoparticles.	O
116	Effects of oxidative weathering on Raman spectra of charcoal and bone chars: consequences in archaeology and paleothermometry. <b>2023</b> , 355, 1-22	О
115	Facile Surface Treatment of 3D-Printed PLA Filter for Enhanced Graphene Oxide Doping and Effective Removal of Cationic Dyes. <b>2023</b> , 15, 269	O
114	Nitrogen-Doped Porous Carbon-Supported PtCo Nanoparticle Electrocatalyst for Oxygen Reduction Reaction Prepared by a Dual-Template Method.	0
113	Effect of Potassium Chloride on the Nanostructure and Reactivity of Soot Particles from Combustion of Municipal Solid Waste.	O
112	Revealing the Impact of Different Iron-Based Precursors on the Catalytic Craphitization for Synthesis of Anode Materials for Lithium Ion Batteries.	О
111	Low temperature route to Co, N, O tri-decorated carbon nanotubes: moderate defects toward boosted bifunctional oxygen electrocatalysis and Zn-air batteries. <b>2023</b> , 156450	O
110	Deterministic organic functionalization of monolayer graphene via high resolution surface engineering.	О
109	Simple and efficient synthesis methods for fabricating anode materials of sodium-ion batteries and their sodium-ion storage mechanism study.	O
108	On the viability of chitosan-derived mesoporous carbons as supports for PtCu electrocatalysts in PEMFC. <b>2023</b> , 141911	0
107	Ligand Decomposition during Nanoparticle Synthesis: Influence of Ligand Structure and Precursor Selection.	О
106	Diesel Oxidation Catalyst PtPd/MnOxAl2O3 for Soot Emission Control: Effect of NO and Water Vapor on Soot Oxidation.	О
105	Effect of temperature and presence of minor amount of metal on porous carbon materials derived from ZIF8 pyrolysis for electrocatalysis. <b>2023</b> ,	O
104	Efficient Production of Segmented Carbon Nanofibers via Catalytic Decomposition of Trichloroethylene over Ni-W Catalyst. <b>2023</b> , 16, 845	1
103	Development of Tailored Graphene Nanoparticles: Preparation, Sorting and Structure Assessment by Complementary Techniques. <b>2023</b> , 28, 565	1

102	1D/3D rambutan-like MottBchottky porous carbon polyhedrons for efficient tri-iodide reduction and hydrogen evolution reaction. <b>2023</b> , 458, 141301	O
101	Inhibiting GNPs breakage during ball milling for a balanced strength-ductility match in GNPs/Al composites. <b>2023</b> , 166, 107410	O
100	Fine tune gas separation property of intrinsic microporous polyimides and their carbon molecular sieve membranes by gradient bromine substitution/removal. <b>2023</b> , 669, 121310	0
99	Co-hydrothermal carbonization of fruit peel with sugars or furfural impacts structural evolution of hydrochar. <b>2023</b> , 193, 116221	O
98	Molten salt synthesis of ZIF derived CoFe alloy embedded in 2D ultrathin N-doped porous carbon nanosheets for efficient alkaline media oxygen electrocatalysis. <b>2023</b> , 939, 168792	0
97	Separation and characterization of different types of residual carbon in fine slag from entrained flow coal gasification. <b>2023</b> , 339, 127437	O
96	Diesel soot combustion over ceria catalyst: Evolution of functional groups on soot surfaces. <b>2023</b> , 338, 127391	0
95	Asphaltene inhibitor performance as a function of the asphaltene molecular/aggregate characteristics: Evaluation by interfacial rheology measurement and bulk methods. <b>2023</b> , 339, 127420	Ο
94	Effect of Pressure on the Thermal Cracking and Polymerization of Pentacosane (n-C25), an n-Alkane. <b>2023</b> , 7, 69-76	Ο
93	A Lignin-Based Carbon Anode with Long-Cycle Stability for Li-Ion Batteries. <b>2023</b> , 24, 284	O
92	Methane, water, quartz, siderite, hematite, and possibly greenalite and sodium hydroxide in a BARB3 drilled sample of the 3.4 Ga Buck ReefChert. Crustal anoxic alkaline high subcritical water at the origin of the observed ferric minerals, methane and disordered graphitic carbon, and of	0
91	plausible molecules of life. Oxidized Graphene Alleviates Benzo[a]pyrene-Induced Cytotoxicity by Suppressing Mitochondrial Apoptosis Pathways. <b>2023</b> , 11, 1917-1927	O
90	Carbonization of MOF-5/Polyaniline Composites to N,O-Doped Carbon/ZnO/ZnS and N,O-Doped Carbon/ZnO Composites with High Specific Capacitance, Specific Surface Area and Electrical Conductivity. <b>2023</b> , 16, 1018	0
89	Enhancing the thermal insulation properties of polymer-derived SiCN(O) ceramic aerogels with a polysilazane-precursor design. <b>2023</b> ,	O
88	Investigation of Amorphous Carbon in Nanostructured Carbon Materials (A Comparative Study by TEM, XPS, Raman Spectroscopy and XRD). <b>2023</b> , 16, 1112	1
87	Synthesis and Characterization of Dense Carbon Films as Model Surfaces to Estimate Electron Transfer Kinetics on Redox Flow Battery Electrodes.	O
86	Immobilizing Poly(vinylphenothiazine) in Ketjenblack-Based Electrodes to Access its Full Specific Capacity as Battery Electrode Material. 2210512	0
85	Mechanocatalytic hydrogenolysis of benzyl phenyl ether over supported nickel catalysts.	Ο

84	Structural Evolution and Durability of Ultrafine NiFe Phosphide Nanoparticle/Carbon Composite Films in Water Oxidation at High Current Densities.	О
83	Surface adsorbed and lattice oxygen activated by the CeO2/Co3O4 interface for enhancive catalytic soot combustion: Experimental and theoretical investigations. <b>2023</b> , 638, 109-122	О
82	EtOH/H2O ratio modulation on carbon for high-Voc (1.03 V) printable mesoscopic perovskite solar cells without any passivation. <b>2023</b> , 4, 1534-1545	0
81	Understanding the Visible Absorption of Electron Accepting and Donating CNDs. 2207238	O
80	Strategy of In Situ Electrochemical Regulation for Highly Enhanced Nonenzymatic Sensing of Carbaryl. <b>2023</b> , 95, 4015-4023	О
79	Hybrid heterostructured Langmuir-Blodgett films based on graphene and triruthenium clusters as electrode for energy storage devices. <b>2023</b> , 9, 100080	O
78	Spray pyrolysis facilitated construction of carbon nanotube-embedded hollow CoFe electrocatalysts demonstrating excellent durability and activity for the oxygen reduction reaction. <b>2023</b> , 944, 169232	О
77	Study of mesophase pitch based carbon fibers: Structural changes as a function of anisotropic content. <b>2023</b> , 171, 105961	O
76	Source of gold and ore-forming processes in the Zarshuran gold deposit, NW Iran: Insights from in situ elemental and sulfur isotopic compositions of pyrite, fluid inclusions, and O田 isotopes. <b>2023</b> , 156, 105382	О
75	Graphene oxide nano-layers functionalized/reduced by L-Citrulline/Pectin bio-molecules for epoxy nanocomposite coating mechanical properties reinforcement. <b>2023</b> , 178, 107493	O
74	Trinity flame retardant with benzimidazole structure towards unsaturated polyester possessing high thermal stability, fire-safety and smoke suppression with in-depth insight into the smoke suppression mechanism. <b>2023</b> , 275, 125928	О
73	Boosting the electrochemical performance of Zn-air battery with N/O co-doped biochar catalyst via a simple physical strategy of forced convection intensity. <b>2023</b> , 272, 118615	О
72	Electric arc gasification of pyrolysis oil with the production of hydrogen-enriched synthesis gas and carbon nanomaterial. <b>2023</b> , 245, 107746	О
71	Super high gas separation performance membranes derived from a brominated alternative PIM by thermal induced crosslinking and carbonization at low temperature. <b>2023</b> , 314, 123548	O
70	Dynamics of soot surface growth and agglomeration by enclosed spray combustion of jet fuel. <b>2023</b> , 342, 127864	О
69	Coordination enhancement of hydrogen and helium recovery in polybenzimidazole-based carbon molecular sieve membranes. <b>2023</b> , 315, 123691	0
68	Effect of silicon carbide-based iron catalyst on reactor optimization for non-oxidative direct conversion of methane. <b>2023</b> , 81, 519-532	0
67	Transforming bio-oil into nitrogen-doped hierarchical porous carbons: Excellent oxygen reduction electrocatalysts for Zn-air batteries. <b>2023</b> , 947, 169584	O

66	Removal of Cr(VI) from aqueous solution by Rice-husk-based activated carbon prepared by Dual-mode heating method. <b>2023</b> , 6, 76-84	O
65	Non-halogenated UV-curable flame retardants for wood coating applications: Review. <b>2023</b> , 179, 107549	О
64	Revealing mechanisms of activated carbon capacity fade in lithium-ion capacitors. 2023, 453, 142359	О
63	Growth mechanism of graphite-carbon encapsulated nickel catalysts and curvature effect of carbon layer on the performance of catalytic hydrogenation. <b>2023</b> , 331, 122738	О
62	Design of improved CoMo hydrotreating catalyst via engineering of carbon nanotubes@alumina composite support. <b>2023</b> , 328, 122475	О
61	Outstanding electromagnetic wave absorption performance of polyacrylonitrile-based ultrahigh modulus carbon fibers decorated with CoZn-bimetallic ZIFs. <b>2023</b> , 950, 169912	O
60	From multi to single-particle analysis: A seasonal spectroscopic study of airborne particulate matter in Zaragoza, Spain. <b>2023</b> , 259, 124550	0
59	Tailored wettability in fluorinated carbon nanoparticles synthesized from fluorotelomer alcohols. <b>2023</b> , 626, 157136	O
58	The effect of organic matter fraction extracted on micropores development degree and CH4 adsorption capacity of coal. <b>2023</b> , 110, 204870	0
57	Cross Network Composite Aerogel Towards Robust and Fire-Resist Thermal Insulation Material. 2201443	О
56	Green fabrication of hierarchically porous carbon microtubes from biomass waste via self-activation for high-energy-density supercapacitor. <b>2023</b> , 560, 232703	0
55	Ultra-superior mechanical properties of multilayer graphene nanosheets reinforced carbon-graphite materials. <b>2023</b> , 133, 109719	О
54	Tunable Interlayer Interactions in Reduced Graphene Oxide Paper. 2023, 15, 7627-7634	0
53	One stone two birds: Pitch assisted microcrystalline regulation and defect engineering in coal-based carbon anodes for sodium-ion batteries. <b>2023</b> , 56, 532-541	1
52	Extrusion plant microtube synthesis of micron-sized nitrogen-doped hollow porous carbon nanosheets for high rate and high energy density supercapacitors. <b>2023</b> , 133, 109715	0
51	Correlation between Graphitic Carbon and Elemental Carbon in Diesel Particulate Matter in Workplace Atmospheres. <b>2023</b> , 95, 3283-3290	O
50	How Effective Is Graphitization of Biomasses for the Carbon Stability of Pt/C ORR Catalysts?. <b>2023</b> , 13, 343	0
49	Pyrolysis-reforming of cellulose over Ni/mordenite for production of hydrogen and heavier organics: The distinct impacts of Ni and mordenite on nature of coke. <b>2023</b> , 538, 112980	O

48	Efficient cathodes for quasi-solid-state aluminum-air batteries. <b>2023</b> , 29, 1447-1458	О
47	Improvement of capacitor performance by pitch-based binder for a new alternative to polymer binders. <b>2023</b> , 37, 102726	O
46	Hydrolysis of cellulose to glucose in aqueous phase with phosphate group modified hydroxy-rich carbon-based catalyst. <b>2023</b> , 206, 72-83	О
45	Novel metal-lignin assembly strategy for one-pot fabrication of lignin-derived heteroatom-doped hierarchically porous carbon and its application in high-performance supercapacitor. <b>2023</b> , 234, 123603	O
44	Fabrication of 3D self-supporting hierarchical poplar-based thick carbon electrode via coupling delignification and gradient carbonization for electrochemical performance. <b>2023</b> , 562, 232787	O
43	Structural, morphological and electrochemical characterization of the degradation processes during the oxygen reduction reaction of iron(II) phthalocyanine supported on carbon nanotubes. <b>2023</b> , 446, 142060	O
42	In situ Ti assisted graphitization approach for the preparation of graphite foam with light weight and high thermal conductivity. <b>2023</b> , 13, 6075-6086	O
41	Structural evolution of porous carbon heteroatom doping under oxidant on supercapacitor performance. <b>2023</b> , 29, 101416	O
40	WITHDRAWN: Exploring new synthetic methodology toward a predicted carbon allotrope: Carbon schwarzite. <b>2023</b> ,	0
39	Catalytic Soot Combustion-General Concepts and Alkali Promotion. <b>2023</b> , 13, 3395-3418	O
38	Investigation of Pyrolysis Kinetic Triplet, Thermodynamics, Product Characteristics and Reaction Mechanism of Waste Cooking Oil Biodiesel under the Influence of Copper Slag. <b>2023</b> , 16, 2137	O
37	Iron Nanoparticles to Catalyze Graphitization of Cellulose for Energy Storage Applications. <b>2023</b> , 6, 3549-35	5 <b>59</b> o
36	Soot Formation in Methane Pyrolysis Reactor: Modeling Soot Growth and Particle Characterization. <b>2023</b> , 127, 2136-2147	O
35	Molten salt synthesis of carbon anode for high-performance sodium-ion batteries. <b>2023</b> , 447, 142150	O
34	Synthesis of Boron-Doped Carbon Nanomaterial. <b>2023</b> , 16, 1986	1
33	Comparative Analysis of Spectroscopic Studies of Tungsten and Carbon Deposits on Plasma-Facing Components in Thermonuclear Fusion Reactors. <b>2023</b> , 15, 623	O
32	Growing curly graphene layer boosts hard carbon with superior sodium-ion storage.	O
31	How Well Do Our Adsorbents Actually Perform?The Case of Dimethoate Removal Using Viscose Fiber-Derived Carbons. <b>2023</b> , 20, 4553	O

30	Design of experiments as a tool to guide the preparation of tailor-made activated carbons. <b>2023</b> , 13,	О
29	Evolution of particle size and morphology in plasma synthesis of few-layer graphene and soot. <b>2023</b> , 112713	О
28	Boosting sodium-storage properties of hierarchical Na3V2(PO4)3@C micro-flower cathodes by tiny Cr doping: The effect of four ounces moving a thousand pounds[]	О
27	Stable zinc metal anode with an ultrathin carbon coating for zinc-ion batteries. <b>2023</b> , 936, 117357	O
26	Structural Effects of Microcrystalline Cellulose-Derived Carbon Supports on Catalytic Performance of the Pd(OH)2/C Catalysts for the Hydrogenolytic Debenzylation of Hexanitrohexaazaisowurtzitane Derivatives. <b>2023</b> , 13, 637	0
25	Ultrahigh Mass Activity Pt Entities Consisting of Pt Single atoms, Clusters, and Nanoparticles for Improved Hydrogen Evolution Reaction. 2205885	О
24	Effect of CeO2 redox properties on the catalytic activity of Pt-CeOx over irreducible SiO2 support for methylcyclohexane (MCH) dehydrogenation. <b>2023</b> , 627, 157134	O
23	UV femtosecond laser cleaning of encrusted historical stained-glasses. <b>2023</b> , 61, 100-108	O
22	A phenomenological and quantitative view on the degradation of positive electrodes from spent lithium-ion batteries in humid atmosphere. <b>2023</b> , 13,	О
21	Interfacial interactions in rubber-based composites. 1-9	О
20	Interfacial interactions in rubber-based composites. 1-9  Superlubricity with Graphitization in Ti-Doped DLC/Steel Tribopair: Response on Humidity and Temperature. 2023, 15, 19715-19729	0
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20	Superlubricity with Graphitization in Ti-Doped DLC/Steel Tribopair: Response on Humidity and Temperature. <b>2023</b> , 15, 19715-19729  35,000 years of recurrent visits inside Nerja cave (Andalusia, Spain) based on charcoals and soot	o
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12	A Novel Manner of Anchoring Cobalt Phthalocyanine on Edge-Defected Carbon for Highly Electrocatalytic CO2 Reduction. 3844-3852	0
11	Soot particles undergo in-cylinder oxidation again via EGR recirculated gas: Analysis of exhaust soot particle characteristics. <b>2023</b> , 106190	O
10	Complex mixture of organic matter in a xenolithic clast from the Zag meteorite revealed by coordinated analyses using AFM-IR, NanoSIMS and STXM/XANES. <b>2023</b> , 115582	O
9	The Enhancing Effect of Stable Oxygen Functional Groups on Porous-Carbon-Supported Pt Catalysts for Alkaline Hydrogen Evolution. <b>2023</b> , 13, 1415	O
8	Effects of a gasoline particulate filter on the physicochemical characteristics of particulate matter from a gasoline engine. <b>2023</b> , 101775	O
7	Mechanism of activated carbon-catalyzed methane decomposition process for the production of hydrogen and high-value carbon.	O
6	Cyclic ether on Pt-based carbon support for enhanced alkaline hydrogen evolution. 2023, 117476	О
5	Comparative study on the chemical structure characteristics of lump coal during superheated water vapor pyrolysis and conventional pyrolysis. <b>2023</b> , 127613	O
4	Tuning the reactivity of carbon surfaces with oxygen-containing functional groups. 2023, 14,	O
3	Insight into the transformation path from fcc-Co to hcp-Co during H2CO H2 processing. <b>2023</b> , 544, 113184	O
2	Construction of EG/SiOC@C porous structure by direct ink writing and in-situ vapor self - Deposition to enhance microwave absorption. <b>2023</b> ,	О
1	Anti-coking Performance of Al/Si/Cr/Ce Ceramic Coating During Naphtha Steam Cracking Applied on Cr25Ni35Nb Alloy. <b>2023</b> ,	O