Teresa Bandosz

List of Publications by Year
in descending order

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423 papers	26,900 citations	4383 86 h-index	11047 137 g-index
427 all docs	427 docs citations	427 times ranked	20021 citing authors

#	Article	IF	Citations
1	Combined Effect of Nitrogenâ€•and Oxygenâ€Containing Functional Groups of Microporous Activated Carbon on its Electrochemical Performance in Supercapacitors. Advanced Functional Materials, 2009, 19, 438-447.	7.8	1,475
2	Surface functional groups of carbons and the effects of their chemical character, density and accessibility to ions on electrochemical performance. Carbon, 2008, 46, 1475-1488.	5.4	774
3	MOFâ€“Graphite Oxide Composites: Combining the Uniqueness of Graphene Layers and Metalâ€“Organic Frameworks. Advanced Materials, 2009, 21, 4753-4757.	11.1	563
4	Water in porous carbons. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2001, 187-188, 539-568.	2.3	347
5	On the Adsorption/Oxidation of Hydrogen Sulfide on Activated Carbons at Ambient Temperatures. Journal of Colloid and Interface Science, 2002, 246, 1-20.	5.0	316
6	Enhanced Adsorption of Ammonia on Metalâ€Organic Framework/Graphite Oxide Composites: Analysis of Surface Interactions. Advanced Functional Materials, 2010, 20, 111-118.	7.8	305
7	Synthesis, Characterization, and Ammonia Adsorption Properties of Mesoporous Metalâ€“Organic Framework (MIL(Fe))â€“Graphite Oxide Composites: Exploring the Limits of Materials Fabrication. Advanced Functional Materials, 2011, 21, 2108-2117.	7.8	294
8	The synthesis and characterization of copper-based metalâ€“organic framework/graphite oxide composites. Carbon, 2011, 49, 563-572.	5.4	293
9	A Molecular Model for Adsorption of Water on Activated Carbon:Â Comparison of Simulation and Experiment. Langmuir, 1999, 15, 533-544.	1.6	287
10	Surface Chemistry of Activated Carbons: Combining the Results of Temperature-Programmed Desorption, Boehm, and Potentiometric Titrations. Journal of Colloid and Interface Science, 2001, 240, 252-258.	5.0	263
11	Pore structure and surface chemistry of adsorbents obtained by pyrolysis of sewage sludge-derived fertilizer. Carbon, 2001, 39, 1971-1979.	5.4	261
12	Bituminous coal-based activated carbons modified with nitrogen as adsorbents of hydrogen sulfide. Carbon, 2004, 42, 469-476.	5.4	252
13	S- and N-doped carbon quantum dots: Surface chemistry dependent antibacterial activity. Carbon, 2018, 135, 104-111.	5.4	244
14	Revisiting the chemistry of graphite oxides and its effect on ammonia adsorption. Journal of Materials Chemistry, 2009, 19, 9176.	6.7	235
15	Exploring the coordination chemistry of MOFâ€“graphite oxide composites and their applications as adsorbents. Dalton Transactions, 2012, 41, 4027.	1.6	217
16	Investigation of factors affecting adsorption of transition metals on oxidized carbon nanotubes. Journal of Hazardous Materials, 2009, 167, 357-365.	6.5	214
17	Reactive Adsorption of Ammonia on Cu-Based MOF/Graphene Composites. Langmuir, 2010, 26, 15302-15309.	1.6	213
18	Importance of Structural and Chemical Heterogeneity of Activated Carbon Surfaces for Adsorption of Dibenzothiophene. Langmuir, 2005, 21, 7752-7759.	1.6	206

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19	Hydrogen Sulfide Adsorption on MOFs and MOF/Graphite Oxide Composites. ChemPhysChem, 2010, 11, 3678-3684.	1.0	206
20	Role of surface chemistry in adsorption of phenol on activated carbons. Journal of Colloid and Interface Science, 2003, 264, 307-312.	5.0	202
21	Analysis of the Relationship between H2S Removal Capacity and Surface Properties of Unimpregnated Activated Carbons. Environmental Science & Technology, 2000, 34, 686-692.	4.6	201
22	Adsorption/Oxidation of Hydrogen Sulfide on Nitrogen-Containing Activated Carbons. Langmuir, 2000, 16, 1980-1986.	1.6	196
23	Carbon surface characterization in terms of its acidity constant distribution. Carbon, 1994, 32, 1026-1028.	5.4	194
24	Surface functionality and porosity of activated carbons obtained from chemical activation of wood. Carbon, 2000, 38, 669-674.	5.4	193
25	Effect of pore structure and surface chemistry of virgin activated carbons on removal of hydrogen sulfide. Carbon, 1999, 37, 483-491.	5.4	190
26	Reactive adsorption of acidic gases on MOF/graphite oxide composites. Microporous and Mesoporous Materials, 2012, 154, 107-112.	2.2	190
27	Characterization of the surfaces of activated carbons in terms of their acidity constant distributions. Carbon, 1993, 31, 1193-1202.	5.4	187
28	Sewage Sludge-Derived Materials as Efficient Adsorbents for Removal of Hydrogen Sulfide. Environmental Science & Technology, 2001, 35, 1537-1543.	4.6	171
29	Ce(III) Doped Zr-Based MOFs as Excellent NO₂ Adsorbents at Ambient Conditions. ACS Applied Materials & Interfaces, 2013, 5, 10565-10573.	4.0	165
30	Mechanism of Ammonia Retention on Graphite Oxides:â€‰ Role of Surface Chemistry and Structure. Journal of Physical Chemistry C, 2007, 111, 15596-15604.	1.5	162
31	Textural and chemical factors affecting adsorption capacity of activated carbon in highly efficient desulfurization of diesel fuel. Carbon, 2009, 47, 2491-2500.	5.4	160
32	The role of water and surface acidity on the reactive adsorption of ammonia on modified activated carbons. Carbon, 2007, 45, 568-578.	5.4	156
33	Cuâ€“BTC MOFâ€“graphene-based hybrid materials as low concentration ammonia sensors. Journal of Materials Chemistry A, 2015, 3, 11417-11429.	5.2	155
34	Reactions of VX, GD, and HD with Zr(OH)₄: Near Instantaneous Decontamination of VX. Journal of Physical Chemistry C, 2012, 116, 11606-11614.	1.5	154
35	The effects of activated carbon surface features on the reactive adsorption of carbamazepine and sulfamethoxazole. Carbon, 2014, 80, 419-432.	5.4	154
36	Reactive Adsorption of NO₂ on Copper-Based Metalâ˜’Organic Framework and Graphite Oxide/Metalâ˜’Organic Framework Composites. ACS Applied Materials & Interfaces, 2010, 2, 3606-3613.	4.0	152

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37	MOFâ€“graphite oxide nanocomposites: surface characterization and evaluation as adsorbents of ammonia. Journal of Materials Chemistry, 2009, 19, 6521.	6.7	150
38	Metalâ€free Nanoporous Carbon as a Catalyst for Electrochemical Reduction of CO₂ to CO and CH₄. ChemSusChem, 2016, 9, 606-616.	3.6	149
39	Effect of pH and Surface Chemistry on the Mechanism of H2S Removal by Activated Carbons. Journal of Colloid and Interface Science, 1999, 216, 360-369.	5.0	144
40	S-doped micro/mesoporous carbonâ€“graphene composites as efficient supercapacitors in alkaline media. Journal of Materials Chemistry A, 2013, 1, 11717.	5.2	144
41	Effect of Surface Characteristics of Wood-Based Activated Carbons on Adsorption of Hydrogen Sulfide. Journal of Colloid and Interface Science, 1999, 214, 407-415.	5.0	137
42	Toward Understanding Reactive Adsorption of Ammonia on Cu-MOF/Graphite Oxide Nanocomposites. Langmuir, 2011, 27, 13043-13051.	1.6	137
43	Experimental Study of Water Adsorption on Activated Carbons. Langmuir, 1999, 15, 587-593.	1.6	136
44	MOF/graphite oxide hybrid materials: exploring the new concept of adsorbents and catalysts. Adsorption, 2011, 17, 5-16.	1.4	133
45	Study of Water Adsorption on Activated Carbons with Different Degrees of Surface Oxidation. Journal of Colloid and Interface Science, 1999, 210, 367-374.	5.0	132
46	pH of activated carbon surface as an indication of its suitability for H2S removal from moist air streams. Carbon, 2001, 39, 1897-1905.	5.4	129
47	Adsorption of SO2on Activated Carbons: The Effect of Nitrogen Functionality and Pore Sizes. Langmuir, 2002, 18, 1257-1264.	1.6	128
48	Interactions of NO₂ with Zr-Based MOF: Effects of the Size of Organic Linkers on NO₂ Adsorption at Ambient Conditions. Langmuir, 2013, 29, 168-174.	1.6	128
49	Effect of surface phosphorus functionalities of activated carbons containing oxygen and nitrogen on electrochemical capacitance. Carbon, 2009, 47, 1576-1584.	5.4	126
50	On the Mechanism of Hydrogen Sulfide Removal from Moist Air on Catalytic Carbonaceous Adsorbents. Industrial & Engineering Chemistry Research, 2005, 44, 530-538.	1.8	124
51	Removal of formaldehyde on carbon -based materials: A review of the recent approaches and findings. Carbon, 2018, 137, 207-221.	5.4	124
52	A Role of Sodium Hydroxide in the Process of Hydrogen Sulfide Adsorption/Oxidation on Caustic-Impregnated Activated Carbons. Industrial & Engineering Chemistry Research, 2002, 41, 672-679.	1.8	123
53	Metal-loaded polystyrene-based activated carbons as dibenzothiophene removal media via reactive adsorption. Carbon, 2006, 44, 2404-2412.	5.4	122
54	On the reactive adsorption of ammonia on activated carbons modified by impregnation with inorganic compounds. Journal of Colloid and Interface Science, 2009, 338, 329-345.	5.0	120

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55	Carbon dots as fluorescent sensor for detection of explosive nitrocompounds. Carbon, 2016, 106, 171-178.	5.4	117
56	H2S adsorption/oxidation on unmodified activated carbons: importance of prehumidification. Carbon, 2001, 39, 2303-2311.	5.4	116
57	Effect of Surface Chemistry on Sorption of Water and Methanol on Activated Carbons. Langmuir, 1996, 12, 6480-6486.	1.6	115
58	Role of graphite precursor in the performance of graphite oxides as ammonia adsorbents. Carbon, 2009, 47, 445-456.	5.4	111
59	Thermal regeneration of a spent activated carbon previously used as hydrogen sulfide adsorbent. Carbon, 2001, 39, 1319-1326.	5.4	110
60	Graphite Oxide/Polyoxometalate Nanocomposites as Adsorbents of Ammonia. Journal of Physical Chemistry C, 2009, 113, 3800-3809.	1.5	110
61	Removal of dorzolamide from biomedical wastewaters with adsorption onto graphite oxide/poly(acrylic acid) grafted chitosan nanocomposite. Bioresource Technology, 2014, 152, 399-406.	4.8	110
62	Complexity of CO2 adsorption on nanoporous sulfur-doped carbons â€“ Is surface chemistry an important factor?. Carbon, 2014, 74, 207-217.	5.4	109
63	Oxidized gâ€€ ₃ N ₄ Nanospheres as Catalytically Photoactive Linkers in MOF/gâ€€ ₃ N ₄ Composite of Hierarchical Pore Structure. Small, 2017, 13, 1601758.	5.2	109
64	Bifunctional ZnO-MgO/activated carbon adsorbents boost H2S room temperature adsorption and catalytic oxidation. Applied Catalysis B: Environmental, 2020, 266, 118674.	10.8	109
65	Spent coffee-based activated carbon: Specific surface features and their importance for H2S separation process. Journal of Hazardous Materials, 2012, 201-202, 141-147.	6.5	108
66	Adsorption of Methyl Mercaptan on Activated Carbons. Environmental Science & Technology, 2002, 36, 2777-2782.	4.6	107
67	Activated carbons with metal containing bentonite binders as adsorbents of hydrogen sulfide. Carbon, 2005, 43, 359-367.	5.4	106
68	Comparison of methods to assess surface acidic groups on activated carbons. Analytical Chemistry, 1992, 64, 891-895.	3.2	105
69	Smart textiles of MOF/g-C₃N₄nanospheres for the rapid detection/detoxification of chemical warfare agents. Nanoscale Horizons, 2017, 2, 356-364.	4.1	105
70	Adsorption of valeric acid from aqueous solution onto activated carbons: role of surface basic sites. Journal of Colloid and Interface Science, 2004, 273, 64-72.	5.0	104
71	Unmodified versus Caustics- Impregnated Carbons for Control of Hydrogen Sulfide Emissions from Sewage Treatment Plants. Environmental Science & Technology, 2000, 34, 1069-1074.	4.6	101
72	Removal of antibiotics from water using sewage sludge- and waste oil sludge-derived adsorbents. Water Research, 2012, 46, 4081-4090.	5.3	101

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73	Engineering the surface of a new class of adsorbents: Metalâ€“organic framework/graphite oxide composites. Journal of Colloid and Interface Science, 2015, 447, 139-151.	5.0	101
74	The role of sulfur-containing groups in ammonia retention on activated carbons. Carbon, 2010, 48, 654-667.	5.4	99
75	Adsorption of hydrogen sulfide on montmorillonites modified with iron. Chemosphere, 2005, 59, 343-353.	4.2	98
76	Determination of the Pore Size Distribution and Network Connectivity in Microporous Solids by Adsorption Measurements and Monte Carlo Simulation. Langmuir, 1997, 13, 4435-4445.	1.6	97
77	Surface Properties of Porous Carbon Obtained from Polystyrene Sulfonic Acid-Based Organic Salts. Langmuir, 2004, 20, 3388-3397.	1.6	97
78	The effects of urea modification and heat treatment on the process of NO2 removal by wood-based activated carbon. Journal of Colloid and Interface Science, 2009, 333, 97-103.	5.0	97
79	Interactions of Ammonia with the Surface of Microporous Carbon Impregnated with Transition Metal Chlorides. Journal of Physical Chemistry C, 2007, 111, 12705-12714.	1.5	96
80	Enhanced Reactive Adsorption of Hydrogen Sulfide on the Composites of Graphene/Graphite Oxide with Copper (Hydr)oxychlorides. ACS Applied Materials & Interfaces, 2012, 4, 3316-3324.	4.0	94
81	Superior Performance of Copper Based MOF and Aminated Graphite Oxide Composites as CO₂ Adsorbents at Room Temperature. ACS Applied Materials & Interfaces, 2013, 5, 4951-4959.	4.0	93
82	Luminescent carbon nanoparticles: effects of chemical functionalization, and evaluation of Ag+ sensing properties. Journal of Materials Chemistry A, 2014, 2, 8342.	5.2	92
83	Pyridinic-N groups and ultramicropore nanoreactors enhance CO2 electrochemical reduction on porous carbon catalysts. Applied Catalysis B: Environmental, 2017, 207, 195-206.	10.8	91
84	Determination of Proton Affinity Distributions for Chemical Systems in Aqueous Environments Using a Stable Numerical Solution of the Adsorption Integral Equation. Journal of Colloid and Interface Science, 1995, 172, 341-346.	5.0	89
85	Cu-BTC/Aminated Graphite Oxide Composites As High-Efficiency CO₂ Capture Media. ACS Applied Materials & Interfaces, 2014, 6, 101-108.	4.0	89
86	Graphite Oxides Obtained from Porous Graphite: The Role of Surface Chemistry and Texture in Ammonia Retention at Ambient Conditions. Advanced Functional Materials, 2010, 20, 1670-1679.	7.8	88
87	Effects of Surface Features on Adsorption of SO₂ on Graphite Oxide/Zr(OH)₄ Composites. Journal of Physical Chemistry C, 2010, 114, 14552-14560.	1.5	87
88	Activated carbon-based gas sensors: effects of surface features on the sensing mechanism. Journal of Materials Chemistry A, 2015, 3, 3821-3831.	5.2	87
89	Reactive adsorption of hydrogen sulfide on graphite oxide/Zr(OH)4 composites. Chemical Engineering Journal, 2011, 166, 1032-1038.	6.6	86
90	ZnFe2O4/activated carbon as a regenerable adsorbent for catalytic removal of H2S from air at room temperature. Chemical Engineering Journal, 2020, 394, 124906.	6.6	86

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91	Photoactivity of S-doped nanoporous activated carbons: A new perspective for harvesting solar energy on carbon-based semiconductors. Applied Catalysis A: General, 2012, 445-446, 159-165.	2.2	85
92	Removal of ammonia by graphite oxide via its intercalation and reactive adsorption. Carbon, 2007, 45, 2130-2132.	5.4	82
93	Adsorption of Dibenzothiophenes on Nanoporous Carbons: Identification of Specific Adsorption Sites Governing Capacity and Selectivity. Energy & Fuels, 2010, 24, 3352-3360.	2.5	82
94	Efficient Hydrogen Sulfide Adsorbents Obtained by Pyrolysis of Sewage Sludge Derived Fertilizer Modified with Spent Mineral Oil. Environmental Science & Technology, 2004, 38, 345-351.	4.6	81
95	Removal of hydrogen sulfide from biogas on sludge-derived adsorbents. Fuel, 2007, 86, 2736-2746.	3.4	80
96	Effect of ozonolysis on the pore structure, surface chemistry, and bundling of single-walled carbon nanotubes. Journal of Colloid and Interface Science, 2008, 317, 375-382.	5.0	80
97	Carbon Quantum Dot Surface-Chemistry-Dependent Ag Release Governs the High Antibacterial Activity of Ag-Metalâ€“Organic Framework Composites. ACS Applied Bio Materials, 2018, 1, 693-707.	2.3	80
98	Carbon dots obtained using hydrothermal treatment of formaldehyde. Cell imaging in vitro. Nanoscale, 2014, 6, 9071-9077.	2.8	79
99	Evidence for CO2 reactive adsorption on nanoporous S- and N-doped carbon at ambient conditions. Carbon, 2016, 96, 856-863.	5.4	79
100	Effect of pyrolysis temperature and time on catalytic performance of sewage sludge/industrial sludge-based composite adsorbents. Applied Catalysis B: Environmental, 2006, 67, 77-85.	10.8	77
101	New copper/GO based material as an efficient oxygen reduction catalyst in an alkaline medium: The role of unique Cu/rGO architecture. Applied Catalysis B: Environmental, 2015, 163, 424-435.	10.8	77
102	Porous carbon modified with sulfur in energy related applications. Carbon, 2017, 118, 561-577.	5.4	77
103	Visible-Light-Enhanced Interactions of Hydrogen Sulfide with Composites of Zinc (Oxy)hydroxide with Graphite Oxide and Graphene. Langmuir, 2012, 28, 1337-1346.	1.6	76
104	Pore Structure of Carbonâ^'Mineral Nanocomposites and Derived Carbons Obtained by Template Carbonization. Chemistry of Materials, 1996, 8, 2023-2029.	3.2	75
105	Interactions of 4,6-Dimethyldibenzothiophene with the Surface of Activated Carbons. Langmuir, 2009, 25, 9302-9312.	1.6	74
106	Role of sulfur and nitrogen surface groups in adsorption of formaldehyde on nanoporous carbons. Carbon, 2018, 138, 283-291.	5.4	74
107	Comparison of the Surface Features of Two Wood-Based Activated Carbons. Industrial & Engineering Chemistry Research, 2000, 39, 301-306.	1.8	73
108	Catalytic properties of activated carbon surface in the process of adsorption/oxidation of methyl mercaptan. Catalysis Today, 2005, 99, 323-328.	2.2	73

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109	Study of H2S Adsorption and Water Regeneration of Spent Coconut-Based Activated Carbon. Environmental Science & Technology, 2000, 34, 4587-4592.	4.6	72
110	Effect of Surface Characteristics on Adsorption of Methyl Mercaptan on Activated Carbons. Industrial & Engineering Chemistry Research, 2002, 41, 4346-4352.	1.8	71
111	Insight into the mechanism of CO2 adsorption on Cuâ€“BTC and its composites with graphite oxide or aminated graphite oxide. Chemical Engineering Journal, 2014, 239, 399-407.	6.6	71
112	Adsorption/Oxidation of CH3SH on Activated Carbons Containing Nitrogen. Langmuir, 2003, 19, 6115-6121.	1.6	70
113	Changes in graphite oxide texture and chemistry upon oxidation and reduction and their effect on adsorption of ammonia. Carbon, 2011, 49, 4392-4402.	5.4	70
114	Desulfurization of air at high and low H2S concentrations. Chemical Engineering Journal, 2009, 155, 594-602.	6.6	68
115	Adsorption of SO2on Sewage Sludge-Derived Materials. Environmental Science & Technology, 2001, 35, 3263-3269.	4.6	67
116	Adsorptive Removal of Thiophenic Compounds from Oils by Activated Carbon Modified with Concentrated Nitric Acid. Energy & Fuels, 2013, 27, 1499-1505.	2.5	67
117	Electrochemical Reduction of Oxygen on Hydrophobic Ultramicroporous PolyHIPE Carbon. ACS Catalysis, 2016, 6, 5618-5628.	5.5	67
118	Desulfurization of digester gas: prediction of activated carbon bed performance at low concentrations of hydrogen sulfide. Catalysis Today, 2005, 99, 329-337.	2.2	65
119	Photooxidation of dibenzothiophene on TiO2/hectorite thin films layered catalyst. Journal of Colloid and Interface Science, 2006, 299, 125-135.	5.0	65
120	Activated carbons modified with sewage sludge derived phase and their application in the process of NO2 removal. Carbon, 2007, 45, 2537-2546.	5.4	65
121	Adsorption of Water and Methanol on Micro- and Mesoporous Wood-Based Activated Carbons. Langmuir, 2000, 16, 5435-5440.	1.6	64
122	Template-Derived Mesoporous Carbons with Highly Dispersed Transition Metals as Media for the Reactive Adsorption of Dibenzothiophene. Langmuir, 2007, 23, 6033-6041.	1.6	64
123	Fingerprint imaging using N-doped carbon dots. Carbon, 2019, 144, 791-797.	5.4	64
124	Enhanced reactive adsorption of H₂S on Cuâ€“BTC/ S- and N-doped GO composites. Journal of Materials Chemistry A, 2015, 3, 8194-8204.	5.2	63
125	The effect of oxidation on the surface chemistry of sulfur-containing carbons and their arsine adsorption capacity. Carbon, 2010, 48, 1779-1787.	5.4	62
126	Role of microporosity and surface chemistry in adsorption of 4,6-dimethyldibenzothiophene on polymer-derived activated carbons. Fuel, 2010, 89, 1499-1507.	3.4	61

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127	Acetaldehyde Adsorption on Nitrogen-Containing Activated Carbons. Langmuir, 2002, 18, 3213-3218.	1.6	60
128	Investigation of the enhancing effects of sulfur and/or oxygen functional groups of nanoporous carbons on adsorption of dibenzothiophenes. Carbon, 2011, 49, 1216-1224.	5.4	60
129	Manganese oxide and graphite oxide/MnO2 composites as reactive adsorbents of ammonia at ambient conditions. Microporous and Mesoporous Materials, 2012, 150, 55-63.	2.2	60
130	A New Generation of Surface Active Carbon Textiles As Reactive Adsorbents of Indoor Formaldehyde. ACS Applied Materials & Interfaces, 2018, 10, 8066-8076.	4.0	60
131	Effect of Graphite Features on the Properties of Metalâ€“Organic Framework/Graphite Hybrid Materials Prepared Using an in Situ Process. Langmuir, 2011, 27, 10234-10242.	1.6	59
132	Active pore space utilization in nanoporous carbon-based supercapacitors: Effects of conductivity and pore accessibility. Journal of Power Sources, 2012, 220, 243-252.	4.0	59
133	Aminated graphite oxides and their composites with copper-based metalâ€“organic framework: in search for efficient media for CO2 sequestration. RSC Advances, 2013, 3, 9932.	1.7	59
134	Revisiting the Effect of Surface Chemistry on Adsorption of Water on Activated Carbons. Journal of Physical Chemistry B, 1999, 103, 3877-3884.	1.2	58
135	H2S Adsorption/Oxidation on Materials Obtained Using Sulfuric Acid Activation of Sewage Sludge-Derived Fertilizer. Journal of Colloid and Interface Science, 2002, 252, 188-194.	5.0	58
136	Adsorption of dibenzothiophenes on activated carbons with copper and iron deposited on their surfaces. Fuel Processing Technology, 2010, 91, 693-701.	3.7	58
137	Reactive adsorption of mustard gas surrogate on zirconium (hydr)oxide/graphite oxide composites: the role of surface and chemical features. Journal of Materials Chemistry A, 2016, 4, 1008-1019.	5.2	57
138	Analysis of sulfamethoxazole and trimethoprim adsorption on sewage sludge and fish waste derived adsorbents. Microporous and Mesoporous Materials, 2016, 220, 58-72.	2.2	57
139	Effect of surface chemical groups on energetic heterogeneity of activated carbons. Langmuir, 1993, 9, 2518-2522.	1.6	56
140	Reactive adsorption of SO2 on activated carbons with deposited iron nanoparticles. Journal of Hazardous Materials, 2013, 246-247, 300-309.	6.5	56
141	Effect of confined space reduction of graphite oxide followed by sulfur doping on oxygen reduction reaction in neutral electrolyte. Journal of Materials Chemistry A, 2013, 1, 7059.	5.2	56
142	Adsorption near Ambient Temperatures of Methane, Carbon Tetrafluoride, and Sulfur Hexafluoride on Commercial Activated Carbons. Journal of Chemical & Engineering Data, 1995, 40, 1288-1292.	1.0	55
143	Photoactivity of gâ€C₃N₄/Sâ€Doped Porous Carbon Composite: Synergistic Effect of Composite Formation. ChemSusChem, 2016, 9, 795-799.	3.6	55
144	Study of carbon-smectite composites and carbons obtained by in situ carbonization of polyfurfuryl alcohol. Carbon, 1994, 32, 659-664.	5.4	54

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145	A Study of Acetaldehyde Adsorption on Activated Carbons. Journal of Colloid and Interface Science, 2001, 242, 44-51.	5.0	54
146	Removal of Cationic and Ionic Dyes on Industrialâ˜Municipal Sludge Based Composite Adsorbents. Industrial & Engineering Chemistry Research, 2007, 46, 1786-1793.	1.8	54
147	Role of phosphorus in carbon matrix in desulfurization of diesel fuel using adsorption process. Fuel, 2012, 92, 318-326.	3.4	54
148	Insight into the Capacitive Performance of Sulfurâ€Doped Nanoporous Carbons Modified by Addition of Graphene Phase. Electroanalysis, 2014, 26, 109-120.	1.5	54
149	Confined space reduced graphite oxide doped with sulfur as metal-free oxygen reduction catalyst. Carbon, 2014, 66, 227-233.	5.4	54
150	Highly luminescent S-doped carbon dots for the selective detection of ammonia. Carbon, 2017, 114, 544-556.	5.4	54
151	Ultrasound-activated TiO2/GO-based bifunctional photoreactive adsorbents for detoxification of chemical warfare agent surrogate vapors. Chemical Engineering Journal, 2020, 395, 125099.	6.6	54
152	H2S Adsorption/Oxidation on Adsorbents Obtained from Pyrolysis of Sewage-Sludge-Derived Fertilizer Using Zinc Chloride Activation. Industrial & Engineering Chemistry Research, 2001, 40, 3502-3510.	1.8	53
153	Removal of copper on composite sewage sludge/industrial sludge-based adsorbents: The role of surface chemistry. Journal of Colloid and Interface Science, 2006, 302, 379-388.	5.0	53
154	Role of Graphite Oxide (GO) and Polyaniline (PANI) in NO₂ Reduction on GO-PANI Composites. Industrial & Engineering Chemistry Research, 2007, 46, 6925-6935.	1.8	53
155	Enhancement in Dibenzothiophene Reactive Adsorption from Liquid Fuel via Incorporation of Sulfur Heteroatoms into the Nanoporous Carbon Matrix. ChemSusChem, 2011, 4, 139-147.	3.6	53
156	Inverse gas chromatographic study of activated carbons: The effect of controlled oxidation on microstructure and surface chemical functionality. Journal of Colloid and Interface Science, 1992, 151, 433-445.	5.0	52
157	N-doped polymeric resin-derived porous carbons as efficient ammonia removal and detection media. Carbon, 2017, 117, 228-239.	5.4	52
158	Inverse Gas Chromatography Study of Modified Smectite Surfaces. Clays and Clay Minerals, 1992, 40, 306-310.	0.6	51
159	Interactions of NO2 with activated carbons modified with cerium, lanthanum and sodium chlorides. Journal of Hazardous Materials, 2009, 165, 704-713.	6.5	51
160	Effect of surface chemical and structural heterogeneity of copper-based MOF/graphite oxide composites on the adsorption of ammonia. Journal of Colloid and Interface Science, 2014, 417, 109-114.	5.0	51
161	Evaluation of CO2 interactions with S-doped nanoporous carbon and its composites with a reduced GO: Effect of surface features on an apparent physical adsorption mechanism. Carbon, 2016, 98, 250-258.	5.4	51
162	Zinc peroxide nanoparticles: Surface, chemical and optical properties and the effect of thermal treatment on the detoxification of mustard gas. Applied Catalysis B: Environmental, 2018, 226, 429-440.	10.8	51

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163	Effect of Carbon Surface Modification with Dimethylamine on Reactive Adsorption of NO_x. Langmuir, 2011, 27, 1837-1843.	1.6	50
164	Zinc (hydr)oxide/graphite based-phase composites: effect of the carbonaceous phase on surface properties and enhancement in electrical conductivity. Journal of Materials Chemistry, 2012, 22, 7970.	6.7	50
165	Sulfurâ€Doped Carbon Aerogel as a Metalâ€Free Oxygen Reduction Catalyst. ChemCatChem, 2015, 7, 2924-2931.	1.8	50
166	Role of Surface Chemistry and Morphology in the Reactive Adsorption of H₂S on Iron (Hydr)Oxide/Graphite Oxide Composites. Langmuir, 2015, 31, 2730-2742.	1.6	50
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