

# Teresa Bandosz

## List of Publications by Citations

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

418 papers	22,750 citations	80 h-index	126 g-index
427 ext. papers	24,716 ext. citations	8.3 avg, IF	7.56 L-index

#	Paper	IF	Citations
4 <sup>18</sup>	Combined Effect of Nitrogen- and Oxygen-Containing Functional Groups of Microporous Activated Carbon on its Electrochemical Performance in Supercapacitors. <i>Advanced Functional Materials</i> , <b>2009</b> , 19, 438-447	15.6	1287
4 <sup>17</sup>	Surface functional groups of carbons and the effects of their chemical character, density and accessibility to ions on electrochemical performance. <i>Carbon</i> , <b>2008</b> , 46, 1475-1488	10.4	651
4 <sup>16</sup>	MOF/Graphite Oxide Composites: Combining the Uniqueness of Graphene Layers and Metal-Organic Frameworks. <i>Advanced Materials</i> , <b>2009</b> , 21, 4753-4757	24	489
4 <sup>15</sup>	Water in porous carbons. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2001</b> , 187-188, 539-568	5.1	314
4 <sup>14</sup>	On the adsorption/oxidation of hydrogen sulfide on activated carbons at ambient temperatures. <i>Journal of Colloid and Interface Science</i> , <b>2002</b> , 246, 1-20	9.3	272
4 <sup>13</sup>	A Molecular Model for Adsorption of Water on Activated Carbon: Comparison of Simulation and Experiment. <i>Langmuir</i> , <b>1999</b> , 15, 533-544	4	267
4 <sup>12</sup>	Enhanced Adsorption of Ammonia on Metal-Organic Framework/Graphite Oxide Composites: Analysis of Surface Interactions. <i>Advanced Functional Materials</i> , <b>2010</b> , 20, 111-118	15.6	266
4 <sup>11</sup>	Synthesis, Characterization, and Ammonia Adsorption Properties of Mesoporous Metal-Organic Framework (MIL(Fe))/Graphite Oxide Composites: Exploring the Limits of Materials Fabrication. <i>Advanced Functional Materials</i> , <b>2011</b> , 21, 2108-2117	15.6	262
4 <sup>10</sup>	The synthesis and characterization of copper-based metal-organic framework/graphite oxide composites. <i>Carbon</i> , <b>2011</b> , 49, 563-572	10.4	250
4 <sup>09</sup>	Surface Chemistry of Activated Carbons: Combining the Results of Temperature-Programmed Desorption, Boehm, and Potentiometric Titrations. <i>Journal of Colloid and Interface Science</i> , <b>2001</b> , 240, 252-258	9.3	232
4 <sup>08</sup>	Bituminous coal-based activated carbons modified with nitrogen as adsorbents of hydrogen sulfide. <i>Carbon</i> , <b>2004</b> , 42, 469-476	10.4	225
4 <sup>07</sup>	Pore structure and surface chemistry of adsorbents obtained by pyrolysis of sewage sludge-derived fertilizer. <i>Carbon</i> , <b>2001</b> , 39, 1971-1979	10.4	225
4 <sup>06</sup>	Revisiting the chemistry of graphite oxides and its effect on ammonia adsorption. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 9176		215
4 <sup>05</sup>	Importance of structural and chemical heterogeneity of activated carbon surfaces for adsorption of dibenzothiophene. <i>Langmuir</i> , <b>2005</b> , 21, 7752-9	4	195
4 <sup>04</sup>	Exploring the coordination chemistry of MOF-graphite oxide composites and their applications as adsorbents. <i>Dalton Transactions</i> , <b>2012</b> , 41, 4027-35	4.3	192
4 <sup>03</sup>	Investigation of factors affecting adsorption of transition metals on oxidized carbon nanotubes. <i>Journal of Hazardous Materials</i> , <b>2009</b> , 167, 357-65	12.8	191
4 <sup>02</sup>	Reactive adsorption of ammonia on Cu-based MOF/graphene composites. <i>Langmuir</i> , <b>2010</b> , 26, 15302-9	4	181

401	Carbon surface characterization in terms of its acidity constant distribution. <i>Carbon</i> , <b>1994</b> , 32, 1026-1028	10.4	181
400	Adsorption/Oxidation of Hydrogen Sulfide on Nitrogen-Containing Activated Carbons. <i>Langmuir</i> , <b>2000</b> , 16, 1980-1986	4	178
399	Role of surface chemistry in adsorption of phenol on activated carbons. <i>Journal of Colloid and Interface Science</i> , <b>2003</b> , 264, 307-12	9.3	176
398	Hydrogen sulfide adsorption on MOFs and MOF/graphite oxide composites. <i>ChemPhysChem</i> , <b>2010</b> , 11, 3678-84	3.2	173
397	Analysis of the Relationship between H <sub>2</sub> S Removal Capacity and Surface Properties of Unimpregnated Activated Carbons. <i>Environmental Science &amp; Technology</i> , <b>2000</b> , 34, 686-692	10.3	173
396	Surface functionality and porosity of activated carbons obtained from chemical activation of wood. <i>Carbon</i> , <b>2000</b> , 38, 669-674	10.4	170
395	Characterization of the surfaces of activated carbons in terms of their acidity constant distributions. <i>Carbon</i> , <b>1993</b> , 31, 1193-1202	10.4	169
394	Effect of pore structure and surface chemistry of virgin activated carbons on removal of hydrogen sulfide. <i>Carbon</i> , <b>1999</b> , 37, 483-491	10.4	166
393	Reactive adsorption of acidic gases on MOF/graphite oxide composites. <i>Microporous and Mesoporous Materials</i> , <b>2012</b> , 154, 107-112	5.3	165
392	Sewage sludge-derived materials as efficient adsorbents for removal of hydrogen sulfide. <i>Environmental Science &amp; Technology</i> , <b>2001</b> , 35, 1537-43	10.3	157
391	S- and N-doped carbon quantum dots: Surface chemistry dependent antibacterial activity. <i>Carbon</i> , <b>2018</b> , 135, 104-111	10.4	152
390	Textural and chemical factors affecting adsorption capacity of activated carbon in highly efficient desulfurization of diesel fuel. <i>Carbon</i> , <b>2009</b> , 47, 2491-2500	10.4	146
389	Mechanism of Ammonia Retention on Graphite Oxides: Role of Surface Chemistry and Structure. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 15596-15604	3.8	145
388	MOF-graphite oxide nanocomposites: surface characterization and evaluation as adsorbents of ammonia. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 6521		136
387	The role of water and surface acidity on the reactive adsorption of ammonia on modified activated carbons. <i>Carbon</i> , <b>2007</b> , 45, 568-578	10.4	135
386	Reactions of VX, GD, and HD with Zr(OH) <sub>4</sub> : Near Instantaneous Decontamination of VX. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 11606-11614	3.8	134
385	Effect of pH and Surface Chemistry on the Mechanism of H <sub>2</sub> S Removal by Activated Carbons. <i>Journal of Colloid and Interface Science</i> , <b>1999</b> , 216, 360-369	9.3	130
384	Reactive adsorption of NO <sub>2</sub> on copper-based metal-organic framework and graphite oxide/metal-organic framework composites. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2010</b> , 2, 3606-13	9.5	128

383	S-doped micro/mesoporous carbon/graphene composites as efficient supercapacitors in alkaline media. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 11717	13	126
382	Experimental Study of Water Adsorption on Activated Carbons. <i>Langmuir</i> , <b>1999</b> , 15, 587-593	4	125
381	Effect of Surface Characteristics of Wood-Based Activated Carbons on Adsorption of Hydrogen Sulfide. <i>Journal of Colloid and Interface Science</i> , <b>1999</b> , 214, 407-415	9.3	124
380	CuBTC MOF/graphene-based hybrid materials as low concentration ammonia sensors. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 11417-11429	13	120
379	Metal-free Nanoporous Carbon as a Catalyst for Electrochemical Reduction of CO <sub>2</sub> to CO and CH <sub>4</sub> . <i>ChemSusChem</i> , <b>2016</b> , 9, 606-16	8.3	120
378	Study of Water Adsorption on Activated Carbons with Different Degrees of Surface Oxidation. <i>Journal of Colloid and Interface Science</i> , <b>1999</b> , 210, 367-374	9.3	119
377	Adsorption of SO <sub>2</sub> on Activated Carbons: The Effect of Nitrogen Functionality and Pore Sizes. <i>Langmuir</i> , <b>2002</b> , 18, 1257-1264	4	118
376	Toward understanding reactive adsorption of ammonia on Cu-MOF/graphite oxide nanocomposites. <i>Langmuir</i> , <b>2011</b> , 27, 13043-51	4	117
375	Metal-loaded polystyrene-based activated carbons as dibenzothiophene removal media via reactive adsorption. <i>Carbon</i> , <b>2006</b> , 44, 2404-2412	10.4	117
374	MOF/graphite oxide hybrid materials: exploring the new concept of adsorbents and catalysts. <i>Adsorption</i> , <b>2011</b> , 17, 5-16	2.6	116
373	A Role of Sodium Hydroxide in the Process of Hydrogen Sulfide Adsorption/Oxidation on Caustic-Impregnated Activated Carbons. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2002</b> , 41, 672-679	3.9	114
372	The effects of activated carbon surface features on the reactive adsorption of carbamazepine and sulfamethoxazole. <i>Carbon</i> , <b>2014</b> , 80, 419-432	10.4	112
371	Effect of Surface Chemistry on Sorption of Water and Methanol on Activated Carbons. <i>Langmuir</i> , <b>1996</b> , 12, 6480-6486	4	112
370	Ce(III) doped Zr-based MOFs as excellent NO <sub>2</sub> adsorbents at ambient conditions. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 10565-73	9.5	111
369	pH of activated carbon surface as an indication of its suitability for H <sub>2</sub> S removal from moist air streams. <i>Carbon</i> , <b>2001</b> , 39, 1897-1905	10.4	111
368	Effect of surface phosphorus functionalities of activated carbons containing oxygen and nitrogen on electrochemical capacitance. <i>Carbon</i> , <b>2009</b> , 47, 1576-1584	10.4	107
367	On the Mechanism of Hydrogen Sulfide Removal from Moist Air on Catalytic Carbonaceous Adsorbents. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2005</b> , 44, 530-538	3.9	107
366	H <sub>2</sub> S adsorption/oxidation on unmodified activated carbons: importance of prehumidification. <i>Carbon</i> , <b>2001</b> , 39, 2303-2311	10.4	103

365	Graphite Oxide/Polyoxometalate Nanocomposites as Adsorbents of Ammonia. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 3800-3809	3.8	102
364	On the reactive adsorption of ammonia on activated carbons modified by impregnation with inorganic compounds. <i>Journal of Colloid and Interface Science</i> , <b>2009</b> , 338, 329-45	9.3	101
363	Thermal regeneration of a spent activated carbon previously used as hydrogen sulfide adsorbent. <i>Carbon</i> , <b>2001</b> , 39, 1319-1326	10.4	101
362	Interactions of NO <sub>2</sub> with Zr-based MOF: effects of the size of organic linkers on NO <sub>2</sub> adsorption at ambient conditions. <i>Langmuir</i> , <b>2013</b> , 29, 168-74	4	98
361	Removal of dorzolamide from biomedical wastewaters with adsorption onto graphite oxide/poly(acrylic acid) grafted chitosan nanocomposite. <i>Bioresource Technology</i> , <b>2014</b> , 152, 399-406	11	96
360	Unmodified versus Caustics- Impregnated Carbons for Control of Hydrogen Sulfide Emissions from Sewage Treatment Plants. <i>Environmental Science &amp; Technology</i> , <b>2000</b> , 34, 1069-1074	10.3	96
359	Adsorption of valeric acid from aqueous solution onto activated carbons: role of surface basic sites. <i>Journal of Colloid and Interface Science</i> , <b>2004</b> , 273, 64-72	9.3	94
358	Activated carbons with metal containing bentonite binders as adsorbents of hydrogen sulfide. <i>Carbon</i> , <b>2005</b> , 43, 359-367	10.4	94
357	Comparison of methods to assess surface acidic groups on activated carbons. <i>Analytical Chemistry</i> , <b>1992</b> , 64, 891-895	7.8	94
356	Role of graphite precursor in the performance of graphite oxides as ammonia adsorbents. <i>Carbon</i> , <b>2009</b> , 47, 445-456	10.4	93
355	Carbon dots as fluorescent sensor for detection of explosive nitrocompounds. <i>Carbon</i> , <b>2016</b> , 106, 171-178	10.4	93
354	Adsorption of methyl mercaptan on activated carbons. <i>Environmental Science &amp; Technology</i> , <b>2002</b> , 36, 2777-82	10.3	92
353	Spent coffee-based activated carbon: specific surface features and their importance for H <sub>2</sub> S separation process. <i>Journal of Hazardous Materials</i> , <b>2012</b> , 201-202, 141-7	12.8	91
352	Surface properties of porous carbon obtained from polystyrene sulfonic acid-based organic salts. <i>Langmuir</i> , <b>2004</b> , 20, 3388-97	4	91
351	The effects of urea modification and heat treatment on the process of NO <sub>2</sub> removal by wood-based activated carbon. <i>Journal of Colloid and Interface Science</i> , <b>2009</b> , 333, 97-103	9.3	89
350	Adsorption of hydrogen sulfide on montmorillonites modified with iron. <i>Chemosphere</i> , <b>2005</b> , 59, 343-53	8.4	88
349	Removal of antibiotics from water using sewage sludge- and waste oil sludge-derived adsorbents. <i>Water Research</i> , <b>2012</b> , 46, 4081-90	12.5	87
348	Determination of the Pore Size Distribution and Network Connectivity in Microporous Solids by Adsorption Measurements and Monte Carlo Simulation. <i>Langmuir</i> , <b>1997</b> , 13, 4435-4445	4	87

- 347 Interactions of Ammonia with the Surface of Microporous Carbon Impregnated with Transition Metal Chlorides. *Journal of Physical Chemistry C*, **2007**, 111, 12705-12714 3.8 87
- 346 The role of sulfur-containing groups in ammonia retention on activated carbons. *Carbon*, **2010**, 48, 654-667. 3.4 85
- 345 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 9.3 85
- 344 Engineering the surface of a new class of adsorbents: metal-organic framework/graphite oxide composites. *Journal of Colloid and Interface Science*, **2015**, 447, 139-51 9.3 84
- 343 Complexity of CO<sub>2</sub> adsorption on nanoporous sulfur-doped carbons II: surface chemistry an important factor?. *Carbon*, **2014**, 74, 207-217 10.4 82
- 342 Superior performance of copper based MOF and aminated graphite oxide composites as CO<sub>2</sub> adsorbents at room temperature. *ACS Applied Materials & Interfaces*, **2013**, 5, 4951-9 9.5 82
- 341 Luminescent carbon nanoparticles: effects of chemical functionalization, and evaluation of Ag<sup>+</sup> sensing properties. *Journal of Materials Chemistry A*, **2014**, 2, 8342 13 80
- 340 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 5.1 80
- 339 Enhanced reactive adsorption of hydrogen sulfide on the composites of graphene/graphite oxide with copper (hydr)oxychlorides. *ACS Applied Materials & Interfaces*, **2012**, 4, 3316-24 9.5 80
- 338 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 15.6 80
- 337 Adsorption of Dibenzothiophenes on Nanoporous Carbons: Identification of Specific Adsorption Sites Governing Capacity and Selectivity. *Energy & Fuels*, **2010**, 24, 3352-3360 4.1 79
- 336 Smart textiles of MOF/g-CN nanospheres for the rapid detection/detoxification of chemical warfare agents. *Nanoscale Horizons*, **2017**, 2, 356-364 10.8 78
- 335 Reactive adsorption of hydrogen sulfide on graphite oxide/Zr(OH)<sub>4</sub> composites. *Chemical Engineering Journal*, **2011**, 166, 1032-1038 14.7 77
- 334 Effects of Surface Features on Adsorption of SO<sub>2</sub> on Graphite Oxide/Zr(OH)<sub>4</sub> Composites. *Journal of Physical Chemistry C*, **2010**, 114, 14552-14560 3.8 77
- 333 Removal of ammonia by graphite oxide via its intercalation and reactive adsorption. *Carbon*, **2007**, 45, 2130-2132 10.4 74
- 332 Oxidized g-C<sub>3</sub>N<sub>4</sub> Nanospheres as Catalytically Photoactive Linkers in MOF/g-C<sub>3</sub>N<sub>4</sub> Composite of Hierarchical Pore Structure. *Small*, **2017**, 13, 1601758 11 73
- 331 Removal of formaldehyde on carbon -based materials: A review of the recent approaches and findings. *Carbon*, **2018**, 137, 207-221 10.4 72
- 330 Effect of ozonolysis on the pore structure, surface chemistry, and bundling of single-walled carbon nanotubes. *Journal of Colloid and Interface Science*, **2008**, 317, 375-82 9.3 72

329	Efficient hydrogen sulfide adsorbents obtained by pyrolysis of sewage sludge derived fertilizer modified with spent mineral oil. <i>Environmental Science &amp; Technology</i> , <b>2004</b> , 38, 345-51	10.3	72
328	Carbon dots obtained using hydrothermal treatment of formaldehyde. Cell imaging in vitro. <i>Nanoscale</i> , <b>2014</b> , 6, 9071-7	7.7	71
327	Visible-light-enhanced interactions of hydrogen sulfide with composites of zinc (oxy)hydroxide with graphite oxide and graphene. <i>Langmuir</i> , <b>2012</b> , 28, 1337-46	4	71
326	Pore Structure of Carbon/Mineral Nanocomposites and Derived Carbons Obtained by Template Carbonization. <i>Chemistry of Materials</i> , <b>1996</b> , 8, 2023-2029	9.6	71
325	Interactions of 4,6-dimethyldibenzothiophene with the surface of activated carbons. <i>Langmuir</i> , <b>2009</b> , 25, 9302-12	4	70
324	Removal of hydrogen sulfide from biogas on sludge-derived adsorbents. <i>Fuel</i> , <b>2007</b> , 86, 2736-2746	7.1	68
323	Pyridinic-N groups and ultramicro pore nanoreactors enhance CO <sub>2</sub> electrochemical reduction on porous carbon catalysts. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 207, 195-206	21.8	67
322	Cu-BTC/aminated graphite oxide composites as high-efficiency CO <sub>2</sub> capture media. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 101-8	9.5	67
321	Effect of pyrolysis temperature and time on catalytic performance of sewage sludge/industrial sludge-based composite adsorbents. <i>Applied Catalysis B: Environmental</i> , <b>2006</b> , 67, 77-85	21.8	67
320	Comparison of the Surface Features of Two Wood-Based Activated Carbons. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2000</b> , 39, 301-306	3.9	65
319	Study of H <sub>2</sub> S Adsorption and Water Regeneration of Spent Coconut-Based Activated Carbon. <i>Environmental Science &amp; Technology</i> , <b>2000</b> , 34, 4587-4592	10.3	65
318	New copper/GO based material as an efficient oxygen reduction catalyst in an alkaline medium: The role of unique Cu/rGO architecture. <i>Applied Catalysis B: Environmental</i> , <b>2015</b> , 163, 424-435	21.8	64
317	Activated carbon-based gas sensors: effects of surface features on the sensing mechanism. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 3821-3831	13	64
316	Effect of Surface Characteristics on Adsorption of Methyl Mercaptan on Activated Carbons. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2002</b> , 41, 4346-4352	3.9	64
315	Evidence for CO <sub>2</sub> reactive adsorption on nanoporous S- and N-doped carbon at ambient conditions. <i>Carbon</i> , <b>2016</b> , 96, 856-863	10.4	63
314	Adsorption/Oxidation of CH <sub>3</sub> SH on Activated Carbons Containing Nitrogen. <i>Langmuir</i> , <b>2003</b> , 19, 6115-6121	4.1	63
313	Catalytic properties of activated carbon surface in the process of adsorption/oxidation of methyl mercaptan. <i>Catalysis Today</i> , <b>2005</b> , 99, 323-328	5.3	62
312	Porous carbon modified with sulfur in energy related applications. <i>Carbon</i> , <b>2017</b> , 118, 561-577	10.4	61



311	Adsorption of SO <sub>2</sub> on sewage sludge-derived materials. <i>Environmental Science &amp; Technology</i> , <b>2001</b> , 35, 3263-9	10.3	61
310	Adsorptive Removal of Thiophenic Compounds from Oils by Activated Carbon Modified with Concentrated Nitric Acid. <i>Energy &amp; Fuels</i> , <b>2013</b> , 27, 1499-1505	4.1	59
309	Template-derived mesoporous carbons with highly dispersed transition metals as media for the reactive adsorption of dibenzothiophene. <i>Langmuir</i> , <b>2007</b> , 23, 6033-41	4	59
308	Desulfurization of digester gas: prediction of activated carbon bed performance at low concentrations of hydrogen sulfide. <i>Catalysis Today</i> , <b>2005</b> , 99, 329-337	5.3	59
307	Changes in graphite oxide texture and chemistry upon oxidation and reduction and their effect on adsorption of ammonia. <i>Carbon</i> , <b>2011</b> , 49, 4392-4402	10.4	58
306	Adsorption of Water and Methanol on Micro- and Mesoporous Wood-Based Activated Carbons. <i>Langmuir</i> , <b>2000</b> , 16, 5435-5440	4	58
305	Role of microporosity and surface chemistry in adsorption of 4,6-dimethyldibenzothiophene on polymer-derived activated carbons. <i>Fuel</i> , <b>2010</b> , 89, 1499-1507	7.1	56
304	Activated carbons modified with sewage sludge derived phase and their application in the process of NO <sub>2</sub> removal. <i>Carbon</i> , <b>2007</b> , 45, 2537-2546	10.4	56
303	Photooxidation of dibenzothiophene on TiO <sub>2</sub> /hectorite thin films layered catalyst. <i>Journal of Colloid and Interface Science</i> , <b>2006</b> , 299, 125-35	9.3	56
302	Effect of graphite features on the properties of metal-organic framework/graphite hybrid materials prepared using an in situ process. <i>Langmuir</i> , <b>2011</b> , 27, 10234-42	4	55
301	H <sub>2</sub> S adsorption/oxidation on materials obtained using sulfuric acid activation of sewage sludge-derived fertilizer. <i>Journal of Colloid and Interface Science</i> , <b>2002</b> , 252, 188-94	9.3	55
300	Effect of surface chemical groups on energetic heterogeneity of activated carbons. <i>Langmuir</i> , <b>1993</b> , 9, 2518-2522	4	55
299	Desulfurization of air at high and low H <sub>2</sub> S concentrations. <i>Chemical Engineering Journal</i> , <b>2009</b> , 155, 594-602	10.7	54
298	Investigation of the enhancing effects of sulfur and/or oxygen functional groups of nanoporous carbons on adsorption of dibenzothiophenes. <i>Carbon</i> , <b>2011</b> , 49, 1216-1224	10.4	54
297	The effect of oxidation on the surface chemistry of sulfur-containing carbons and their arsine adsorption capacity. <i>Carbon</i> , <b>2010</b> , 48, 1779-1787	10.4	54
296	Acetaldehyde Adsorption on Nitrogen-Containing Activated Carbons. <i>Langmuir</i> , <b>2002</b> , 18, 3213-3218	4	54
295	Adsorption near Ambient Temperatures of Methane, Carbon Tetrafluoride, and Sulfur Hexafluoride on Commercial Activated Carbons. <i>Journal of Chemical &amp; Engineering Data</i> , <b>1995</b> , 40, 1288-1292	2.8	54
294	Active pore space utilization in nanoporous carbon-based supercapacitors: Effects of conductivity and pore accessibility. <i>Journal of Power Sources</i> , <b>2012</b> , 220, 243-252	8.9	53



293	Adsorption of dibenzothiophenes on activated carbons with copper and iron deposited on their surfaces. <i>Fuel Processing Technology</i> , <b>2010</b> , 91, 693-701	7.2	53
292	Revisiting the Effect of Surface Chemistry on Adsorption of Water on Activated Carbons. <i>Journal of Physical Chemistry B</i> , <b>1999</b> , 103, 3877-3884	3.4	53
291	Insight into the mechanism of CO <sub>2</sub> adsorption on CuBTC and its composites with graphite oxide or aminated graphite oxide. <i>Chemical Engineering Journal</i> , <b>2014</b> , 239, 399-407	14.7	52
290	Manganese oxide and graphite oxide/MnO <sub>2</sub> composites as reactive adsorbents of ammonia at ambient conditions. <i>Microporous and Mesoporous Materials</i> , <b>2012</b> , 150, 55-63	5.3	52
289	Aminated graphite oxides and their composites with copper-based metal-organic framework: in search for efficient media for CO <sub>2</sub> sequestration. <i>RSC Advances</i> , <b>2013</b> , 3, 9932	3.7	52
288	Effect of confined space reduction of graphite oxide followed by sulfur doping on oxygen reduction reaction in neutral electrolyte. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 7059	13	52
287	Bifunctional ZnO-MgO/activated carbon adsorbents boost H <sub>2</sub> S room temperature adsorption and catalytic oxidation. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 266, 118674	21.8	51
286	Enhancement in dibenzothiophene reactive adsorption from liquid fuel via incorporation of sulfur heteroatoms into the nanoporous carbon matrix. <i>ChemSusChem</i> , <b>2011</b> , 4, 139-47	8.3	51
285	Removal of copper on composite sewage sludge/industrial sludge-based adsorbents: the role of surface chemistry. <i>Journal of Colloid and Interface Science</i> , <b>2006</b> , 302, 379-88	9.3	51
284	Study of carbon-smectite composites and carbons obtained by in situ carbonization of polyfurfuryl alcohol. <i>Carbon</i> , <b>1994</b> , 32, 659-664	10.4	51
283	Confined space reduced graphite oxide doped with sulfur as metal-free oxygen reduction catalyst. <i>Carbon</i> , <b>2014</b> , 66, 227-233	10.4	50
282	Inverse Gas Chromatography Study of Modified Smectite Surfaces. <i>Clays and Clay Minerals</i> , <b>1992</b> , 40, 306-310	2.1	50
281	Reactive adsorption of mustard gas surrogate on zirconium (hydr)oxide/graphite oxide composites: the role of surface and chemical features. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 1008-1019	13	49
280	Removal of Cationic and Ionic Dyes on Industrial/Municipal Sludge Based Composite Adsorbents. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2007</b> , 46, 1786-1793	3.9	49
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278	H <sub>2</sub> S Adsorption/Oxidation on Adsorbents Obtained from Pyrolysis of Sewage-Sludge-Derived Fertilizer Using Zinc Chloride Activation. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2001</b> , 40, 3502-3510	3.9	48
277	Electrochemical Reduction of Oxygen on Hydrophobic Ultramicroporous PolyHIPE Carbon. <i>ACS Catalysis</i> , <b>2016</b> , 6, 5618-5628	13.1	48
276	Role of phosphorus in carbon matrix in desulfurization of diesel fuel using adsorption process. <i>Fuel</i> , <b>2012</b> , 92, 318-326	7.1	47

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| 3 | Beyond Adsorption: The Effect of Sulfur Doping on Emerging Applications of Nanoporous Carbons. <i>Eurasian Chemico-Technological Journal</i> , <b>2017</b> , 18, 233  | 0.8 |
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