

Dimitrios A Giannakoudakis

List of Publications by Year in descending order

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241
papers

15,940
citations

15504

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20961

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docs citations

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times ranked

14897
citing authors

#	ARTICLE	IF	CITATIONS
1	Combined Effect of Nitrogen and Oxygen-Containing Functional Groups of Microporous Activated Carbon on its Electrochemical Performance in Supercapacitors. <i>Advanced Functional Materials</i> , 2009, 19, 438-447.	14.9	1,475
2	Surface functional groups of carbons and the effects of their chemical character, density and accessibility to ions on electrochemical performance. <i>Carbon</i> , 2008, 46, 1475-1488.	10.3	774
3	MOF-Graphite Oxide Composites: Combining the Uniqueness of Graphene Layers and Metal-Organic Frameworks. <i>Advanced Materials</i> , 2009, 21, 4753-4757.	21.0	563
4	On the Adsorption/Oxidation of Hydrogen Sulfide on Activated Carbons at Ambient Temperatures. <i>Journal of Colloid and Interface Science</i> , 2002, 246, 1-20.	9.4	316
5	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> , 2011, 21, 2108-2117.	14.9	294
6	The synthesis and characterization of copper-based metal-organic framework/graphite oxide composites. <i>Carbon</i> , 2011, 49, 563-572.	10.3	293
7	S- and N-doped carbon quantum dots: Surface chemistry dependent antibacterial activity. <i>Carbon</i> , 2018, 135, 104-111.	10.3	244
8	Revisiting the chemistry of graphite oxides and its effect on ammonia adsorption. <i>Journal of Materials Chemistry</i> , 2009, 19, 9176.	6.7	235
9	Exploring the coordination chemistry of MOF-graphite oxide composites and their applications as adsorbents. <i>Dalton Transactions</i> , 2012, 41, 4027.	3.3	217
10	Reactive Adsorption of Ammonia on Cu-Based MOF/Graphene Composites. <i>Langmuir</i> , 2010, 26, 15302-15309.	3.5	213
11	Importance of Structural and Chemical Heterogeneity of Activated Carbon Surfaces for Adsorption of Dibenzothiophene. <i>Langmuir</i> , 2005, 21, 7752-7759.	3.5	206
12	Hydrogen Sulfide Adsorption on MOFs and MOF/Graphite Oxide Composites. <i>ChemPhysChem</i> , 2010, 11, 3678-3684.	2.1	206
13	Adsorption/Oxidation of Hydrogen Sulfide on Nitrogen-Containing Activated Carbons. <i>Langmuir</i> , 2000, 16, 1980-1986.	3.5	196
14	Adsorption of methylene blue on cashew nut shell based carbons activated with zinc chloride: The role of surface and structural parameters. <i>Journal of Molecular Liquids</i> , 2017, 229, 465-471.	4.9	191
15	Reactive adsorption of acidic gases on MOF/graphite oxide composites. <i>Microporous and Mesoporous Materials</i> , 2012, 154, 107-112.	4.4	190
16	Characterization of the surfaces of activated carbons in terms of their acidity constant distributions. <i>Carbon</i> , 1993, 31, 1193-1202.	10.3	187
17	Polymer/Metal Organic Framework (MOF) Nanocomposites for Biomedical Applications. <i>Molecules</i> , 2020, 25, 185.	3.8	173
18	Sewage Sludge-Derived Materials as Efficient Adsorbents for Removal of Hydrogen Sulfide. <i>Environmental Science & Technology</i> , 2001, 35, 1537-1543.	10.0	171

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19	Mechanism of Ammonia Retention on Graphite Oxides: Role of Surface Chemistry and Structure. <i>Journal of Physical Chemistry C</i> , 2007, 111, 15596-15604.	3.1	162
20	Textural and chemical factors affecting adsorption capacity of activated carbon in highly efficient desulfurization of diesel fuel. <i>Carbon</i> , 2009, 47, 2491-2500.	10.3	160
21	Cu-BTC MOF-graphene-based hybrid materials as low concentration ammonia sensors. <i>Journal of Materials Chemistry A</i> , 2015, 3, 11417-11429.	10.3	155
22	Reactions of VX, GD, and HD with Zr(OH) ₄ : Near Instantaneous Decontamination of VX. <i>Journal of Physical Chemistry C</i> , 2012, 116, 11606-11614.	3.1	154
23	MOF-graphite oxide nanocomposites: surface characterization and evaluation as adsorbents of ammonia. <i>Journal of Materials Chemistry</i> , 2009, 19, 6521.	6.7	150
24	Metal-free Nanoporous Carbon as a Catalyst for Electrochemical Reduction of CO ₂ to CO and CH ₄ . <i>ChemSusChem</i> , 2016, 9, 606-616.	6.8	149
25	S-doped micro/mesoporous carbon-graphene composites as efficient supercapacitors in alkaline media. <i>Journal of Materials Chemistry A</i> , 2013, 1, 11717.	10.3	144
26	Toward Understanding Reactive Adsorption of Ammonia on Cu-MOF/Graphite Oxide Nanocomposites. <i>Langmuir</i> , 2011, 27, 13043-13051.	3.5	137
27	MOF/graphite oxide hybrid materials: exploring the new concept of adsorbents and catalysts. <i>Adsorption</i> , 2011, 17, 5-16.	3.0	133
28	Agricultural biomass/waste as adsorbents for toxic metal decontamination of aqueous solutions. <i>Journal of Molecular Liquids</i> , 2019, 295, 111684.	4.9	131
29	Adsorption of SO ₂ on Activated Carbons: The Effect of Nitrogen Functionality and Pore Sizes. <i>Langmuir</i> , 2002, 18, 1257-1264.	3.5	128
30	On the Mechanism of Hydrogen Sulfide Removal from Moist Air on Catalytic Carbonaceous Adsorbents. <i>Industrial & Engineering Chemistry Research</i> , 2005, 44, 530-538.	3.7	124
31	On the reactive adsorption of ammonia on activated carbons modified by impregnation with inorganic compounds. <i>Journal of Colloid and Interface Science</i> , 2009, 338, 329-345.	9.4	120
32	Use of chicken feather and eggshell to synthesize a novel magnetized activated carbon for sorption of heavy metal ions. <i>Bioresource Technology</i> , 2020, 297, 122452.	9.6	120
33	H ₂ S adsorption/oxidation on unmodified activated carbons: importance of prehumidification. <i>Carbon</i> , 2001, 39, 2303-2311.	10.3	116
34	Graphite Oxide/Polyoxometalate Nanocomposites as Adsorbents of Ammonia. <i>Journal of Physical Chemistry C</i> , 2009, 113, 3800-3809.	3.1	110
35	Removal of dorzolamide from biomedical wastewaters with adsorption onto graphite oxide/poly(acrylic acid) grafted chitosan nanocomposite. <i>Bioresource Technology</i> , 2014, 152, 399-406.	9.6	110
36	Aloe vera waste biomass-based adsorbents for the removal of aquatic pollutants: A review. <i>Journal of Environmental Management</i> , 2018, 227, 354-364.	7.8	110

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37	Oxidized g-C ₃ N ₄ Nanospheres as Catalytically Photoactive Linkers in MOF/g-C ₃ N ₄ Composite of Hierarchical Pore Structure. <i>Small</i> , 2017, 13, 1601758.	10.0	109
38	Smart textiles of MOF/g-C ₃ N ₄ nanospheres for the rapid detection/detoxification of chemical warfare agents. <i>Nanoscale Horizons</i> , 2017, 2, 356-364.	8.0	105
39	Engineering the surface of a new class of adsorbents: Metal-organic framework/graphite oxide composites. <i>Journal of Colloid and Interface Science</i> , 2015, 447, 139-151.	9.4	101
40	The effects of urea modification and heat treatment on the process of NO ₂ removal by wood-based activated carbon. <i>Journal of Colloid and Interface Science</i> , 2009, 333, 97-103.	9.4	97
41	Effect of 1-(3-phenoxypropyl) pyridazin-1-ium bromide on steel corrosion inhibition in acidic medium. <i>Journal of Colloid and Interface Science</i> , 2019, 541, 418-424.	9.4	97
42	Interactions of Ammonia with the Surface of Microporous Carbon Impregnated with Transition Metal Chlorides. <i>Journal of Physical Chemistry C</i> , 2007, 111, 12705-12714.	3.1	96
43	Enhanced Reactive Adsorption of Hydrogen Sulfide on the Composites of Graphene/Graphite Oxide with Copper (Hydr)oxychlorides. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 3316-3324.	8.0	94
44	Multi-parametric adsorption effects of the reactive dye removal with commercial activated carbons. <i>Journal of Molecular Liquids</i> , 2016, 213, 381-389.	4.9	91
45	Determination of Proton Affinity Distributions for Chemical Systems in Aqueous Environments Using a Stable Numerical Solution of the Adsorption Integral Equation. <i>Journal of Colloid and Interface Science</i> , 1995, 172, 341-346.	9.4	89
46	Graphite Oxides Obtained from Porous Graphite: The Role of Surface Chemistry and Texture in Ammonia Retention at Ambient Conditions. <i>Advanced Functional Materials</i> , 2010, 20, 1670-1679.	14.9	88
47	Activated carbon versus metal-organic frameworks: A review of their PFAS adsorption performance. <i>Journal of Hazardous Materials</i> , 2022, 425, 127810.	12.4	88
48	Effects of Surface Features on Adsorption of SO ₂ on Graphite Oxide/Zr(OH) ₄ Composites. <i>Journal of Physical Chemistry C</i> , 2010, 114, 14552-14560.	3.1	87
49	Activated carbon-based gas sensors: effects of surface features on the sensing mechanism. <i>Journal of Materials Chemistry A</i> , 2015, 3, 3821-3831.	10.3	87
50	Reactive adsorption of hydrogen sulfide on graphite oxide/Zr(OH) ₄ composites. <i>Chemical Engineering Journal</i> , 2011, 166, 1032-1038.	12.7	86
51	ZnFe ₂ O ₄ /activated carbon as a regenerable adsorbent for catalytic removal of H ₂ S from air at room temperature. <i>Chemical Engineering Journal</i> , 2020, 394, 124906.	12.7	86
52	Removal of ammonia by graphite oxide via its intercalation and reactive adsorption. <i>Carbon</i> , 2007, 45, 2130-2132.	10.3	82
53	Adsorption of Dibenzothiophenes on Nanoporous Carbons: Identification of Specific Adsorption Sites Governing Capacity and Selectivity. <i>Energy & Fuels</i> , 2010, 24, 3352-3360.	5.1	82
54	Carbon Quantum Dot Surface-Chemistry-Dependent Ag Release Governs the High Antibacterial Activity of Ag-Metal-Organic Framework Composites. <i>ACS Applied Bio Materials</i> , 2018, 1, 693-707.	4.6	80

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55	Porous carbon modified with sulfur in energy related applications. Carbon, 2017, 118, 561-577.	10.3	77
56	Visible-Light-Enhanced Interactions of Hydrogen Sulfide with Composites of Zinc (Oxy)hydroxide with Graphite Oxide and Graphene. Langmuir, 2012, 28, 1337-1346.	3.5	76
57	Enhanced uranium removal from acidic wastewater by phosphonate-functionalized ordered mesoporous silica: Surface chemistry matters the most. Journal of Hazardous Materials, 2021, 413, 125279.	12.4	76
58	Interactions of 4,6-Dimethyldibenzothiophene with the Surface of Activated Carbons. Langmuir, 2009, 25, 9302-9312.	3.5	74
59	Role of sulfur and nitrogen surface groups in adsorption of formaldehyde on nanoporous carbons. Carbon, 2018, 138, 283-291.	10.3	74
60	Additive-free photo-assisted selective partial oxidation at ambient conditions of 5-hydroxymethylfurfural by manganese (IV) oxide nanorods. Applied Catalysis B: Environmental, 2019, 256, 117803.	20.2	74
61	Study of H ₂ S Adsorption and Water Regeneration of Spent Coconut-Based Activated Carbon. Environmental Science & Technology, 2000, 34, 4587-4592.	10.0	72
62	Adsorptive removal of an eight-component volatile organic compound mixture by Cu-, Co-, and Zr-metal-organic frameworks: Experimental and theoretical studies. Chemical Engineering Journal, 2020, 397, 125391.	12.7	72
63	Insight into the mechanism of CO ₂ adsorption on Cu ²⁺ /BTC and its composites with graphite oxide or aminated graphite oxide. Chemical Engineering Journal, 2014, 239, 399-407.	12.7	71
64	Adsorption/Oxidation of CH ₃ SH on Activated Carbons Containing Nitrogen. Langmuir, 2003, 19, 6115-6121.	3.5	70
65	Layered double hydroxides/biochar composites as adsorbents for water remediation applications: recent trends and perspectives. Journal of Cleaner Production, 2021, 284, 124755.	9.3	68
66	Adsorptive Removal of Thiophenic Compounds from Oils by Activated Carbon Modified with Concentrated Nitric Acid. Energy & Fuels, 2013, 27, 1499-1505.	5.1	67
67	Electrochemical Reduction of Oxygen on Hydrophobic Ultramicroporous PolyHIPE Carbon. ACS Catalysis, 2016, 6, 5618-5628.	11.2	67
68	Desulfurization of digester gas: prediction of activated carbon bed performance at low concentrations of hydrogen sulfide. Catalysis Today, 2005, 99, 329-337.	4.4	65
69	Nanoengineered Electrodes for Biomass-Derived 5-Hydroxymethylfurfural Electrocatalytic Oxidation to 2,5-Furandicarboxylic Acid. ACS Sustainable Chemistry and Engineering, 2021, 9, 1970-1993.	6.7	65
70	Fingerprint imaging using N-doped carbon dots. Carbon, 2019, 144, 791-797.	10.3	64
71	Enhanced reactive adsorption of H ₂ S on Cu ²⁺ /BTC/ S- and N-doped GO composites. Journal of Materials Chemistry A, 2015, 3, 8194-8204.	10.3	63
72	Metal Organic Frameworks as Desulfurization Adsorbents of DBT and 4,6-DMDBT from Fuels. Molecules, 2019, 24, 4525.	3.8	61

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73	Investigation of the enhancing effects of sulfur and/or oxygen functional groups of nanoporous carbons on adsorption of dibenzothiophenes. <i>Carbon</i> , 2011, 49, 1216-1224.	10.3	60
74	Manganese oxide and graphite oxide/MnO ₂ composites as reactive adsorbents of ammonia at ambient conditions. <i>Microporous and Mesoporous Materials</i> , 2012, 150, 55-63.	4.4	60
75	A New Generation of Surface Active Carbon Textiles As Reactive Adsorbents of Indoor Formaldehyde. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 8066-8076.	8.0	60
76	Aminated graphite oxides and their composites with copper-based metal-organic framework: in search for efficient media for CO ₂ sequestration. <i>RSC Advances</i> , 2013, 3, 9932.	3.6	59
77	Removal of heavy metals by leaves-derived biosorbents. <i>Environmental Chemistry Letters</i> , 2019, 17, 755-766.	16.2	59
78	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> , 2016, 4, 1008-1019.	10.3	57
79	Reactive adsorption of SO ₂ on activated carbons with deposited iron nanoparticles. <i>Journal of Hazardous Materials</i> , 2013, 246-247, 300-309.	12.4	56
80	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> , 2013, 1, 7059.	10.3	56
81	Extraction of Metal Ions with Metal-Organic Frameworks. <i>Molecules</i> , 2019, 24, 4605.	3.8	56
82	Photoactivity of g-C ₃ N ₄ /S-Doped Porous Carbon Composite: Synergistic Effect of Composite Formation. <i>ChemSusChem</i> , 2016, 9, 795-799.	6.8	55
83	Insight into the Capacitive Performance of Sulfur-Doped Nanoporous Carbons Modified by Addition of Graphene Phase. <i>Electroanalysis</i> , 2014, 26, 109-120.	2.9	54
84	Highly luminescent S-doped carbon dots for the selective detection of ammonia. <i>Carbon</i> , 2017, 114, 544-556.	10.3	54
85	Ultrasound-activated TiO ₂ /GO-based bifunctional photoreactive adsorbents for detoxification of chemical warfare agent surrogate vapors. <i>Chemical Engineering Journal</i> , 2020, 395, 125099.	12.7	54
86	A comprehensive review on selected graphene synthesis methods: from electrochemical exfoliation through rapid thermal annealing towards biomass pyrolysis. <i>Journal of Materials Chemistry C</i> , 2021, 9, 6722-6748.	5.5	54
87	Role of Graphite Oxide (GO) and Polyaniline (PANI) in NO ₂ Reduction on GO-PANI Composites. <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 6925-6935.	3.7	53
88	Effect of surface chemical and structural heterogeneity of copper-based MOF/graphite oxide composites on the adsorption of ammonia. <i>Journal of Colloid and Interface Science</i> , 2014, 417, 109-114.	9.4	51
89	Zinc peroxide nanoparticles: Surface, chemical and optical properties and the effect of thermal treatment on the detoxification of mustard gas. <i>Applied Catalysis B: Environmental</i> , 2018, 226, 429-440.	20.2	51
90	Effect of Carbon Surface Modification with Dimethylamine on Reactive Adsorption of NO _x . <i>Langmuir</i> , 2011, 27, 1837-1843.	3.5	50

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91	Zinc (hydr)oxide/graphite based-phase composites: effect of the carbonaceous phase on surface properties and enhancement in electrical conductivity. <i>Journal of Materials Chemistry</i> , 2012, 22, 7970.	6.7	50
92	Sulfurâ€Doped Carbon Aerogel as a Metalâ€Free Oxygen Reduction Catalyst. <i>ChemCatChem</i> , 2015, 7, 2924-2931.	3.7	50
93	Role of Surface Chemistry and Morphology in the Reactive Adsorption of H ₂ S on Iron (Hydr)Oxide/Graphite Oxide Composites. <i>Langmuir</i> , 2015, 31, 2730-2742.	3.5	50
94	Catalytic oxidative desulfurization of a 4,6-DMDBT containing model fuel by metal-free activated carbons: the key role of surface chemistry. <i>Green Chemistry</i> , 2019, 21, 6685-6698.	9.0	49
95	Municipal Sludgeâˆ™Industrial Sludge Composite Desulfurization Adsorbents: A Synergy Enhancing the Catalytic Properties. <i>Environmental Science & Technology</i> , 2006, 40, 3378-3383.	10.0	48
96	Role of Zr ⁴⁺ Cations in NO ₂ Adsorption on Ce _{1-x} Zr _x O ₂ Mixed Oxides at Ambient Conditions. <i>Langmuir</i> , 2011, 27, 9379-9386.	3.5	48
97	Importance of carbon surface chemistry in development of ironâ€carbon composite adsorbents for arsenate removal. <i>Journal of Hazardous Materials</i> , 2011, 186, 667-674.	12.4	48
98	Photocatalytic Platforms for Removal of Ammonia from Gaseous and Aqueous Matrixes: Status and Challenges. <i>ACS Catalysis</i> , 2020, 10, 8683-8716.	11.2	48
99	Pyridine-, thiol- and amine-functionalized mesoporous silicas for adsorptive removal of pharmaceuticals. <i>Microporous and Mesoporous Materials</i> , 2020, 299, 110132.	4.4	48
100	Adsorption/Reduction of NO ₂ on Graphite Oxide/Iron Composites. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 10884-10891.	3.7	47
101	Visible light driven photoelectrochemical water splitting on metal free nanoporous carbon promoted by chromophoric functional groups. <i>Carbon</i> , 2014, 79, 432-441.	10.3	47
102	Effect of GO phase in Zn(OH) ₂ /GO composite on the extent of photocatalytic reactive adsorption of mustard gas surrogate. <i>Applied Catalysis B: Environmental</i> , 2016, 183, 37-46.	20.2	47
103	Cobalt (hydr)oxide/graphite oxide composites: Importance of surface chemical heterogeneity for reactive adsorption of hydrogen sulfide. <i>Journal of Colloid and Interface Science</i> , 2012, 378, 1-9.	9.4	45
104	Origin and Perspectives of the Photochemical Activity of Nanoporous Carbons. <i>Advanced Science</i> , 2018, 5, 1800293.	11.2	45
105	Analysis of interactions of mustard gas surrogate vapors with porous carbon textiles. <i>Chemical Engineering Journal</i> , 2019, 362, 758-766.	12.7	45
106	Defectuous UiO-66 MOF Nanocomposites as Reactive Media of Superior Protection against Toxic Vapors. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 14678-14689.	8.0	44
107	Adsorption of ammonia on graphite oxide/aluminium polycation and graphite oxide/zirconiumâ€aluminium polyoxycation composites. <i>Journal of Colloid and Interface Science</i> , 2008, 324, 25-35.	9.4	43
108	Reactive adsorption of hydrogen sulfide on visible light photoactive zinc (hydr)oxide/graphite oxide and zinc (hydr)oxychloride/graphite oxide composites. <i>Applied Catalysis B: Environmental</i> , 2013, 132-133, 321-331.	20.2	43

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109	Key role of terminal hydroxyl groups and visible light in the reactive adsorption/catalytic conversion of mustard gas surrogate on zinc (hydr)oxides. <i>Applied Catalysis B: Environmental</i> , 2015, 174-175, 96-104.	20.2	43
110	Visible light enhanced removal of a sulfur mustard gas surrogate from a vapor phase on novel hydrous ferric oxide/graphite oxide composites. <i>Journal of Materials Chemistry A</i> , 2015, 3, 220-231.	10.3	43
111	Mesoporous Graphitic Carbon Nitride-Based Nanospheres as Visible-Light Active Chemical Warfare Agents Decontaminant. <i>ChemNanoMat</i> , 2016, 2, 268-272.	2.8	42
112	Combined Effect of Porosity and Surface Chemistry on the Electrochemical Reduction of Oxygen on Cellular Vitreous Carbon Foam Catalyst. <i>ACS Catalysis</i> , 2017, 7, 7466-7478.	11.2	42
113	Engaging nanoporous carbons in "beyond adsorption" applications: Characterization, challenges and performance. <i>Carbon</i> , 2020, 164, 69-84.	10.3	41
114	Dual Role of Water in the Process of Methyl Mercaptan Adsorption on Activated Carbons. <i>Langmuir</i> , 2002, 18, 8553-8559.	3.5	40
115	Effect of nanoporous carbon surface chemistry on the removal of endocrine disruptors from water phase. <i>Journal of Colloid and Interface Science</i> , 2015, 449, 180-191.	9.4	40
116	Effective impregnation for the preparation of magnetic mesoporous carbon: application to dye adsorption. <i>Journal of Chemical Technology and Biotechnology</i> , 2017, 92, 1899-1911.	3.2	39
117	Degradation of endocrine disruptor, bisphenol-A, on an mixed oxidation state manganese oxide/modified graphite oxide composite: A role of carbonaceous phase. <i>Journal of Colloid and Interface Science</i> , 2019, 539, 516-524.	9.4	39
118	Detoxification of mustard gas surrogate on ZnO ₂ /g-C ₃ N ₄ composites: Effect of surface features™ synergy and day-night photocatalysis. <i>Applied Catalysis B: Environmental</i> , 2020, 272, 119038.	20.2	39
119	Propensity and appraisal of biochar performance in removal of oil spills: A comprehensive review. <i>Environmental Pollution</i> , 2021, 288, 117676.	7.5	39
120	Study of Hydrogen Sulfide Adsorption on Activated Carbons Using Inverse Gas Chromatography at Infinite Dilution. <i>Journal of Physical Chemistry B</i> , 2000, 104, 8841-8847.	2.6	38
121	Wood-Based Activated Carbons as Adsorbents of Hydrogen Sulfide: A Study of Adsorption and Water Regeneration Processes. <i>Industrial & Engineering Chemistry Research</i> , 2000, 39, 3849-3855.	3.7	37
122	Evaluation of GO/MnO ₂ composites as supercapacitors in neutral electrolytes: role of graphite oxide oxidation level. <i>Journal of Materials Chemistry</i> , 2012, 22, 23525.	6.7	37
123	Barium titanate perovskite nanoparticles as a photoreactive medium for chemical warfare agent detoxification. <i>Journal of Colloid and Interface Science</i> , 2018, 531, 233-244.	9.4	37
124	Sunflower-biomass derived adsorbents for toxic/heavy metals removal from (waste) water. <i>Journal of Molecular Liquids</i> , 2021, 342, 117540.	4.9	36
125	Zinc (hydr)oxide/graphite oxide/AuNPs composites: Role of surface features in H ₂ S reactive adsorption. <i>Journal of Colloid and Interface Science</i> , 2014, 436, 296-305.	9.4	35
126	Irreversible water mediated transformation of BCN from a 3D highly porous form to its nonporous hydrolyzed counterpart. <i>Journal of Materials Chemistry A</i> , 2018, 6, 3510-3521.	10.3	35

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127	New Cu _x S _y /nanoporous carbon composites as efficient oxygen reduction catalysts in alkaline medium. <i>Journal of Materials Chemistry A</i> , 2014, 2, 20164-20176.	10.3	34
128	Aminated graphitic carbon derived from corn stover biomass as adsorbent against antibiotic tetracycline: Optimizing the physicochemical parameters. <i>Journal of Molecular Liquids</i> , 2020, 313, 113523.	4.9	34
129	When sonochemistry meets heterogeneous photocatalysis: designing a sonophotoreactor towards sustainable selective oxidation. <i>Green Chemistry</i> , 2020, 22, 4896-4905.	9.0	34
130	Effects of surface heterogeneity of cobalt oxyhydroxide/graphite oxide composites on reactive adsorption of hydrogen sulfide. <i>Microporous and Mesoporous Materials</i> , 2015, 204, 8-14.	4.4	32
131	Insight into the Mechanism of Oxygen Reduction Reaction on Micro/Mesoporous Carbons: Ultramicropores versus Nitrogen-Containing Catalytic Centers in Ordered Pore Structure. <i>ACS Applied Energy Materials</i> , 2019, 2, 7412-7424.	5.1	32
132	Zeolitic imidazolate frameworks (ZIFs) of various morphologies against eriochrome black-T (EBT): Optimizing the key physicochemical features by process modeling. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 606, 125391.	4.7	32
133	Highly Efficient Air Desulfurization on Self-Assembled Bundles of Copper Hydroxide Nanorods. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 31986-31994.	8.0	31
134	Evaluation of nitrogen- and sulfur-doped porous carbon textiles as electrode materials for flexible supercapacitors. <i>Electrochimica Acta</i> , 2019, 305, 125-136.	5.2	31
135	Mechanochemical Forces as a Synthetic Tool for Zero- and One-Dimensional Titanium Oxide-Based Nano-photocatalysts. <i>Topics in Current Chemistry</i> , 2020, 378, 2.	5.8	31
136	Novel Approaches Utilizing Metal-Organic Framework Composites for the Extraction of Organic Compounds and Metal Traces from Fish and Seafood. <i>Molecules</i> , 2020, 25, 513.	3.8	31
137	Copper Hydroxyl Nitrate/Graphite Oxide Composite as Superoxidant for the Decomposition/Mineralization of Organophosphate-Based Chemical Warfare Agent Surrogate. <i>Advanced Materials Interfaces</i> , 2015, 2, 1500215.	3.7	30
138	Mustard Gas Surrogate Interactions with Modified Porous Carbon Fabrics: Effect of Oxidative Treatment. <i>Langmuir</i> , 2017, 33, 11475-11483.	3.5	30
139	Towards understanding reactive adsorption of small molecule toxic gases on carbonaceous materials. <i>Catalysis Today</i> , 2012, 186, 20-28.	4.4	29
140	Ferrihydrite deposited on cotton textiles as protection media against the chemical warfare agent surrogate (2-chloroethyl ethyl sulfide). <i>Journal of Materials Chemistry A</i> , 2017, 5, 4972-4981.	10.3	29
141	Nitrogen enrichment of S-doped nanoporous carbon by g-C ₃ N ₄ : Insight into photosensitivity enhancement. <i>Carbon</i> , 2016, 107, 895-906.	10.3	28
142	Oxygen Electroreduction on Nanoporous Carbons: Textural Features vs Nitrogen and Boron Catalytic Centers. <i>ChemCatChem</i> , 2019, 11, 851-860.	3.7	28
143	A Novel Nanocomposite of Activated Serpentine Mineral Decorated with Magnetic Nanoparticles for Rapid and Effective Adsorption of Hazardous Cationic Dyes: Kinetics and Equilibrium Studies. <i>Nanomaterials</i> , 2020, 10, 684.	4.1	28
144	Study of carbon microstructure by using inverse gas chromatography. <i>Carbon</i> , 1994, 32, 687-691.	10.3	27

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