

Dimitrios A Giannakoudakis

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240
papers

12,526
citations

57
h-index

103
g-index

248
ext. papers

14,142
ext. citations

8.1
avg, IF

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L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 240 | 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 | 15.6 | 1287 |
| 239 | 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 | 10.4 | 651 |
| 238 | MOF/Graphite Oxide Composites: Combining the Uniqueness of Graphene Layers and Metal-Organic Frameworks. <i>Advanced Materials</i> , 2009 , 21, 4753-4757 | 24 | 489 |
| 237 | 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 | 9.3 | 272 |
| 236 | 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 | 15.6 | 262 |
| 235 | The synthesis and characterization of copper-based metal-organic framework/graphite oxide composites. <i>Carbon</i> , 2011 , 49, 563-572 | 10.4 | 250 |
| 234 | Revisiting the chemistry of graphite oxides and its effect on ammonia adsorption. <i>Journal of Materials Chemistry</i> , 2009 , 19, 9176 | | 215 |
| 233 | Importance of structural and chemical heterogeneity of activated carbon surfaces for adsorption of dibenzothiophene. <i>Langmuir</i> , 2005 , 21, 7752-9 | 4 | 195 |
| 232 | Exploring the coordination chemistry of MOF-graphite oxide composites and their applications as adsorbents. <i>Dalton Transactions</i> , 2012 , 41, 4027-35 | 4.3 | 192 |
| 231 | Reactive adsorption of ammonia on Cu-based MOF/graphene composites. <i>Langmuir</i> , 2010 , 26, 15302-9 | 4 | 181 |
| 230 | Adsorption/Oxidation of Hydrogen Sulfide on Nitrogen-Containing Activated Carbons. <i>Langmuir</i> , 2000 , 16, 1980-1986 | 4 | 178 |
| 229 | Hydrogen sulfide adsorption on MOFs and MOF/graphite oxide composites. <i>ChemPhysChem</i> , 2010 , 11, 3678-84 | 3.2 | 173 |
| 228 | Characterization of the surfaces of activated carbons in terms of their acidity constant distributions. <i>Carbon</i> , 1993 , 31, 1193-1202 | 10.4 | 169 |
| 227 | Reactive adsorption of acidic gases on MOF/graphite oxide composites. <i>Microporous and Mesoporous Materials</i> , 2012 , 154, 107-112 | 5.3 | 165 |
| 226 | Sewage sludge-derived materials as efficient adsorbents for removal of hydrogen sulfide. <i>Environmental Science & Technology</i> , 2001 , 35, 1537-43 | 10.3 | 157 |
| 225 | S- and N-doped carbon quantum dots: Surface chemistry dependent antibacterial activity. <i>Carbon</i> , 2018 , 135, 104-111 | 10.4 | 152 |
| 224 | Textural and chemical factors affecting adsorption capacity of activated carbon in highly efficient desulfurization of diesel fuel. <i>Carbon</i> , 2009 , 47, 2491-2500 | 10.4 | 146 |

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| 223 | Mechanism of Ammonia Retention on Graphite Oxides: Role of Surface Chemistry and Structure. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 15596-15604 | 3.8 | 145 |
| 222 | 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 | 6 | 139 |
| 221 | MOF/graphite oxide nanocomposites: surface characterization and evaluation as adsorbents of ammonia. <i>Journal of Materials Chemistry</i> , 2009 , 19, 6521 | | 136 |
| 220 | 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 | 3.8 | 134 |
| 219 | S-doped micro/mesoporous carbon/graphene composites as efficient supercapacitors in alkaline media. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 11717 | 13 | 126 |
| 218 | CuBTC MOF/graphene-based hybrid materials as low concentration ammonia sensors. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 11417-11429 | 13 | 120 |
| 217 | Metal-free Nanoporous Carbon as a Catalyst for Electrochemical Reduction of CO ₂ to CO and CH ₄ . <i>ChemSusChem</i> , 2016 , 9, 606-16 | 8.3 | 120 |
| 216 | Adsorption of SO ₂ on Activated Carbons: The Effect of Nitrogen Functionality and Pore Sizes. <i>Langmuir</i> , 2002 , 18, 1257-1264 | 4 | 118 |
| 215 | Toward understanding reactive adsorption of ammonia on Cu-MOF/graphite oxide nanocomposites. <i>Langmuir</i> , 2011 , 27, 13043-51 | 4 | 117 |
| 214 | MOF/graphite oxide hybrid materials: exploring the new concept of adsorbents and catalysts. <i>Adsorption</i> , 2011 , 17, 5-16 | 2.6 | 116 |
| 213 | On the Mechanism of Hydrogen Sulfide Removal from Moist Air on Catalytic Carbonaceous Adsorbents. <i>Industrial & Engineering Chemistry Research</i> , 2005 , 44, 530-538 | 3.9 | 107 |
| 212 | H ₂ S adsorption/oxidation on unmodified activated carbons: importance of prehumidification. <i>Carbon</i> , 2001 , 39, 2303-2311 | 10.4 | 103 |
| 211 | Graphite Oxide/Polyoxometalate Nanocomposites as Adsorbents of Ammonia. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 3800-3809 | 3.8 | 102 |
| 210 | 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, 329-45 | 9.3 | 101 |
| 209 | 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 | 11 | 96 |
| 208 | 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 | 9.3 | 89 |
| 207 | Agricultural biomass/waste as adsorbents for toxic metal decontamination of aqueous solutions. <i>Journal of Molecular Liquids</i> , 2019 , 295, 111684 | 6 | 87 |
| 206 | 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 | 3.8 | 87 |

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| 205 | 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 | 9.3 | 85 |
| 204 | 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, 139-51 | 9.3 | 84 |
| 203 | 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, 3316-24 | 9.5 | 80 |
| 202 | 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 | 15.6 | 80 |
| 201 | Adsorption of Dibenzothiophenes on Nanoporous Carbons: Identification of Specific Adsorption Sites Governing Capacity and Selectivity. <i>Energy & Fuels</i> , 2010 , 24, 3352-3360 | 4.1 | 79 |
| 200 | Smart textiles of MOF/g-CN nanospheres for the rapid detection/detoxification of chemical warfare agents. <i>Nanoscale Horizons</i> , 2017 , 2, 356-364 | 10.8 | 78 |
| 199 | Reactive adsorption of hydrogen sulfide on graphite oxide/Zr(OH) ₄ composites. <i>Chemical Engineering Journal</i> , 2011 , 166, 1032-1038 | 14.7 | 77 |
| 198 | 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 | 3.8 | 77 |
| 197 | Polymer/Metal Organic Framework (MOF) Nanocomposites for Biomedical Applications. <i>Molecules</i> , 2020 , 25, | 4.8 | 77 |
| 196 | Multi-parametric adsorption effects of the reactive dye removal with commercial activated carbons. <i>Journal of Molecular Liquids</i> , 2016 , 213, 381-389 | 6 | 74 |
| 195 | Removal of ammonia by graphite oxide via its intercalation and reactive adsorption. <i>Carbon</i> , 2007 , 45, 2130-2132 | 10.4 | 74 |
| 194 | Oxidized g-C N Nanospheres as Catalytically Photoactive Linkers in MOF/g-C N Composite of Hierarchical Pore Structure. <i>Small</i> , 2017 , 13, 1601758 | 11 | 73 |
| 193 | Visible-light-enhanced interactions of hydrogen sulfide with composites of zinc (oxy)hydroxide with graphite oxide and graphene. <i>Langmuir</i> , 2012 , 28, 1337-46 | 4 | 71 |
| 192 | Interactions of 4,6-dimethyldibenzothiophene with the surface of activated carbons. <i>Langmuir</i> , 2009 , 25, 9302-12 | 4 | 70 |
| 191 | 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 | 9.3 | 69 |
| 190 | Aloe vera waste biomass-based adsorbents for the removal of aquatic pollutants: A review. <i>Journal of Environmental Management</i> , 2018 , 227, 354-364 | 7.9 | 66 |
| 189 | Study of H ₂ S Adsorption and Water Regeneration of Spent Coconut-Based Activated Carbon. <i>Environmental Science & Technology</i> , 2000 , 34, 4587-4592 | 10.3 | 65 |
| 188 | Activated carbon-based gas sensors: effects of surface features on the sensing mechanism. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 3821-3831 | 13 | 64 |

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| 187 | Adsorption/Oxidation of CH ₃ SH on Activated Carbons Containing Nitrogen. <i>Langmuir</i> , 2003 , 19, 6115-6121 | 63 |
| 186 | Porous carbon modified with sulfur in energy related applications. <i>Carbon</i> , 2017 , 118, 561-577 | 10.4 61 |
| 185 | Adsorptive Removal of Thiophenic Compounds from Oils by Activated Carbon Modified with Concentrated Nitric Acid. <i>Energy & Fuels</i> , 2013 , 27, 1499-1505 | 4.1 59 |
| 184 | Desulfurization of digester gas: prediction of activated carbon bed performance at low concentrations of hydrogen sulfide. <i>Catalysis Today</i> , 2005 , 99, 329-337 | 5.3 59 |
| 183 | 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 | 10.4 54 |
| 182 | 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 | 11 53 |
| 181 | Insight into the mechanism of CO ₂ adsorption on CuBTC and its composites with graphite oxide or aminated graphite oxide. <i>Chemical Engineering Journal</i> , 2014 , 239, 399-407 | 14.7 52 |
| 180 | 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 | 5.3 52 |
| 179 | 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 | 3.7 52 |
| 178 | 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 | 13 52 |
| 177 | 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 | 13 49 |
| 176 | Enhanced reactive adsorption of H ₂ S on CuBTC/ S- and N-doped GO composites. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 8194-8204 | 13 48 |
| 175 | Electrochemical Reduction of Oxygen on Hydrophobic Ultramicroporous PolyHIPE Carbon. <i>ACS Catalysis</i> , 2016 , 6, 5618-5628 | 13.1 48 |
| 174 | Reactive adsorption of SO ₂ on activated carbons with deposited iron nanoparticles. <i>Journal of Hazardous Materials</i> , 2013 , 246-247, 300-9 | 12.8 47 |
| 173 | Role of sulfur and nitrogen surface groups in adsorption of formaldehyde on nanoporous carbons. <i>Carbon</i> , 2018 , 138, 283-291 | 10.4 46 |
| 172 | Insight into the Capacitive Performance of Sulfur-Doped Nanoporous Carbons Modified by Addition of Graphene Phase. <i>Electroanalysis</i> , 2014 , 26, 109-120 | 3 46 |
| 171 | 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 | 21.8 45 |
| 170 | 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 | 45 |

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| 169 | 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 | 3.9 | 45 |
| 168 | Removal of heavy metals by leaves-derived biosorbents. <i>Environmental Chemistry Letters</i> , 2019 , 17, 755-766 | 3.9 | 45 |
| 167 | Adsorption/Reduction of NO ₂ on Graphite Oxide/Iron Composites. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 10884-10891 | 3.9 | 44 |
| 166 | Importance of carbon surface chemistry in development of iron-carbon composite adsorbents for arsenate removal. <i>Journal of Hazardous Materials</i> , 2011 , 186, 667-74 | 12.8 | 43 |
| 165 | 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, 9379-86 | 4 | 43 |
| 164 | Highly luminescent S-doped carbon dots for the selective detection of ammonia. <i>Carbon</i> , 2017 , 114, 544-556 | 3.9 | 42 |
| 163 | Additive-free photo-assisted selective partial oxidation at ambient conditions of 5-hydroxymethylfurfural by manganese (IV) oxide nanorods. <i>Applied Catalysis B: Environmental</i> , 2019 , 256, 117803 | 21.8 | 42 |
| 162 | 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, 109-14 | 9.3 | 42 |
| 161 | Municipal sludge-industrial sludge composite desulfurization adsorbents: synergy enhancing the catalytic properties. <i>Environmental Science & Technology</i> , 2006 , 40, 3378-83 | 10.3 | 42 |
| 160 | Visible light driven photoelectrochemical water splitting on metal free nanoporous carbon promoted by chromophoric functional groups. <i>Carbon</i> , 2014 , 79, 432-441 | 10.4 | 41 |
| 159 | Sulfur-Doped Carbon Aerogel as a Metal-Free Oxygen Reduction Catalyst. <i>ChemCatChem</i> , 2015 , 7, 2924-2931 | 3.9 | 41 |
| 158 | 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, 2730-42 | 4 | 41 |
| 157 | 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 | 13 | 40 |
| 156 | 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 | 21.8 | 40 |
| 155 | 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 | 9.3 | 40 |
| 154 | Effect of carbon surface modification with dimethylamine on reactive adsorption of NO(x). <i>Langmuir</i> , 2011 , 27, 1837-43 | 4 | 40 |
| 153 | Adsorption of ammonia on graphite oxide/aluminium polycation and graphite oxide/zirconium-aluminium polyoxycation composites. <i>Journal of Colloid and Interface Science</i> , 2008 , 324, 25-35 | 9.3 | 40 |
| 152 | Photoactivity of g-C ₃ N ₄ /S-Doped Porous Carbon Composite: Synergistic Effect of Composite Formation. <i>ChemSusChem</i> , 2016 , 9, 795-9 | 8.3 | 39 |

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| 151 | Fingerprint imaging using N-doped carbon dots. <i>Carbon</i> , 2019 , 144, 791-797 | 10.4 | 39 |
| 150 | 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 | 21.8 | 37 |
| 149 | A New Generation of Surface Active Carbon Textiles As Reactive Adsorbents of Indoor Formaldehyde. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 8066-8076 | 9.5 | 37 |
| 148 | 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 | 4.1 | 37 |
| 147 | Origin and Perspectives of the Photochemical Activity of Nanoporous Carbons. <i>Advanced Science</i> , 2018 , 5, 1800293 | 13.6 | 37 |
| 146 | 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 | 21.8 | 37 |
| 145 | Adsorptive removal of an eight-component volatile organic compound mixture by Cu-, Co-, and Zr-metal-organic frameworks: Experimental and theoretical studies. <i>Chemical Engineering Journal</i> , 2020 , 397, 125391 | 14.7 | 36 |
| 144 | Mesoporous Graphitic Carbon Nitride-Based Nanospheres as Visible-Light Active Chemical Warfare Agents Decontaminant. <i>ChemNanoMat</i> , 2016 , 2, 268-272 | 3.5 | 35 |
| 143 | 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 | 13.1 | 35 |
| 142 | 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 | | 34 |
| 141 | Dual Role of Water in the Process of Methyl Mercaptan Adsorption on Activated Carbons. <i>Langmuir</i> , 2002 , 18, 8553-8559 | 4 | 34 |
| 140 | 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, 180-91 | 9.3 | 33 |
| 139 | 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 | 3.9 | 33 |
| 138 | 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 | 3.4 | 33 |
| 137 | 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 | 10 | 33 |
| 136 | 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 | 3.5 | 32 |
| 135 | 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 | 14.7 | 32 |
| 134 | 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 | 9.3 | 31 |

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| 133 | New Cu _x Sy/nanoporous carbon composites as efficient oxygen reduction catalysts in alkaline medium. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 20164-20176 | 13 | 31 |
| 132 | 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 | 9.3 | 31 |
| 131 | Enhanced uranium removal from acidic wastewater by phosphonate-functionalized ordered mesoporous silica: Surface chemistry matters the most. <i>Journal of Hazardous Materials</i> , 2021 , 413, 125279 | 13.8 | 31 |
| 130 | Extraction of Metal Ions with Metal-Organic Frameworks. <i>Molecules</i> , 2019 , 24, | 4.8 | 30 |
| 129 | Analysis of interactions of mustard gas surrogate vapors with porous carbon textiles. <i>Chemical Engineering Journal</i> , 2019 , 362, 758-766 | 14.7 | 29 |
| 128 | Photocatalytic Platforms for Removal of Ammonia from Gaseous and Aqueous Matrixes: Status and Challenges. <i>ACS Catalysis</i> , 2020 , 10, 8683-8716 | 13.1 | 29 |
| 127 | Metal Organic Frameworks as Desulfurization Adsorbents of DBT and 4,6-DMDBT from Fuels. <i>Molecules</i> , 2019 , 24, | 4.8 | 29 |
| 126 | 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 | 14.7 | 28 |
| 125 | Highly Efficient Air Desulfurization on Self-Assembled Bundles of Copper Hydroxide Nanorods. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 31986-31994 | 9.5 | 28 |
| 124 | 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 | 13 | 27 |
| 123 | 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 | 4.6 | 27 |
| 122 | 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 | 5.3 | 26 |
| 121 | Pyridine-, thiol- and amine-functionalized mesoporous silicas for adsorptive removal of pharmaceuticals. <i>Microporous and Mesoporous Materials</i> , 2020 , 299, 110132 | 5.3 | 26 |
| 120 | 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 | 9.3 | 26 |
| 119 | Nitrogen enrichment of S-doped nanoporous carbon by g-C ₃ N ₄ : Insight into photosensitivity enhancement. <i>Carbon</i> , 2016 , 107, 895-906 | 10.4 | 26 |
| 118 | Study of carbon microstructure by using inverse gas chromatography. <i>Carbon</i> , 1994 , 32, 687-691 | 10.4 | 25 |
| 117 | Defectuous UiO-66 MOF Nanocomposites as Reactive Media of Superior Protection against Toxic Vapors. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 14678-14689 | 9.5 | 25 |
| 116 | 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 | 13 | 24 |

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| 115 | 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 ⁶ | 24 |
| 114 | Engaging nanoporous carbons in Beyond adsorption applications: Characterization, challenges and performance. <i>Carbon</i> , 2020 , 164, 69-84 | 10.4 24 |
| 113 | Microcalorimetric insight into the analysis of the reactive adsorption of ammonia on Cu-MOF and its composite with graphite oxide. <i>Journal of Materials Chemistry</i> , 2012 , 22, 21443 | 24 |
| 112 | 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 | 21.8 23 |
| 111 | Analysis of factors affecting visible and UV enhanced oxidation of dibenzothiophenes on sulfur-doped activated carbons. <i>Carbon</i> , 2013 , 62, 356-364 | 10.4 23 |
| 110 | Effect of Ag containing (nano)particles on reactive adsorption of mustard gas surrogate on iron oxyhydroxide/graphite oxide composites under visible light irradiation. <i>Chemical Engineering Journal</i> , 2016 , 303, 123-136 | 14.7 23 |
| 109 | Layered double hydroxides/biochar composites as adsorbents for water remediation applications: recent trends and perspectives. <i>Journal of Cleaner Production</i> , 2021 , 284, 124755 | 10.3 23 |
| 108 | Mixed CuFe and ZnFe (hydr)oxides as reactive adsorbents of chemical warfare agent surrogates. <i>Journal of Hazardous Materials</i> , 2017 , 329, 141-149 | 12.8 22 |
| 107 | Effect of Visible-Light Exposure and Electrolyte Oxygen Content on the Capacitance of Sulfur-Doped Carbon. <i>ChemElectroChem</i> , 2014 , 1, 565-572 | 4.3 22 |
| 106 | Effect of the graphene phase presence in nanoporous S-doped carbon on photoactivity in UV and visible light. <i>Applied Catalysis B: Environmental</i> , 2014 , 147, 842-850 | 21.8 22 |
| 105 | Mustard Gas Surrogate Interactions with Modified Porous Carbon Fabrics: Effect of Oxidative Treatment. <i>Langmuir</i> , 2017 , 33, 11475-11483 | 4 22 |
| 104 | Interactions of NO ₂ with Zinc (Hydr)oxide/Graphene Phase Composites: Visible Light Enhanced Surface Reactivity. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 2527-2535 | 3.8 22 |
| 103 | Nanoengineered Electrodes for Biomass-Derived 5-Hydroxymethylfurfural Electrocatalytic Oxidation to 2,5-Furandicarboxylic Acid. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 1970-1993 | 8.3 22 |
| 102 | Insight into the role of the oxidized graphite precursor on the properties of copper-based MOF/graphite oxide composites. <i>Microporous and Mesoporous Materials</i> , 2013 , 179, 205-211 | 5.3 21 |
| 101 | Towards understanding reactive adsorption of small molecule toxic gases on carbonaceous materials. <i>Catalysis Today</i> , 2012 , 186, 20-28 | 5.3 21 |
| 100 | Silica-Polyamine-Based Carbon Composite Adsorbents as Media for Effective Hydrogen Sulfide Adsorption/Oxidation. <i>Chemistry of Materials</i> , 2007 , 19, 2500-2511 | 9.6 21 |
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