

Mykola Seredych

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121
papers

7,247
citations

46
h-index

81
g-index

123
ext. papers

7,902
ext. citations

8.6
avg, IF

6.35
L-index

#	Paper	IF	Citations
121	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
120	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
119	Revisiting the chemistry of graphite oxides and its effect on ammonia adsorption. <i>Journal of Materials Chemistry</i> , 2009 , 19, 9176		215
118	High-Temperature Behavior and Surface Chemistry of Carbide MXenes Studied by Thermal Analysis. <i>Chemistry of Materials</i> , 2019 , 31, 3324-3332	9.6	162
117	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
116	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
115	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
114	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
113	Effect of surface phosphorus functionalities of activated carbons containing oxygen and nitrogen on electrochemical capacitance. <i>Carbon</i> , 2009 , 47, 1576-1584	10.4	107
112	MXene Sorbents for Removal of Urea from Dialysate: A Step toward the Wearable Artificial Kidney. <i>ACS Nano</i> , 2018 , 12, 10518-10528	16.7	102
111	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
110	Role of graphite precursor in the performance of graphite oxides as ammonia adsorbents. <i>Carbon</i> , 2009 , 47, 445-456	10.4	93
109	Removal of antibiotics from water using sewage sludge- and waste oil sludge-derived adsorbents. <i>Water Research</i> , 2012 , 46, 4081-90	12.5	87
108	Complexity of CO ₂ adsorption on nanoporous sulfur-doped carbons – is surface chemistry an important factor?. <i>Carbon</i> , 2014 , 74, 207-217	10.4	82
107	Superior performance of copper based MOF and aminated graphite oxide composites as CO ₂ adsorbents at room temperature. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 4951-9	9.5	82
106	Photoactivity of S-doped nanoporous activated carbons: A new perspective for harvesting solar energy on carbon-based semiconductors. <i>Applied Catalysis A: General</i> , 2012 , 445-446, 159-165	5.1	80
105	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

104	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
103	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
102	Reactive adsorption of hydrogen sulfide on graphite oxide/Zr(OH) ₄ composites. <i>Chemical Engineering Journal</i> , 2011 , 166, 1032-1038	14.7	77
101	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
100	Removal of ammonia by graphite oxide via its intercalation and reactive adsorption. <i>Carbon</i> , 2007 , 45, 2130-2132	10.4	74
99	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
98	Interactions of 4,6-dimethyldibenzothiophene with the surface of activated carbons. <i>Langmuir</i> , 2009 , 25, 9302-12	4	70
97	Pyridinic-N groups and ultramicropore nanoreactors enhance CO ₂ electrochemical reduction on porous carbon catalysts. <i>Applied Catalysis B: Environmental</i> , 2017 , 207, 195-206	21.8	67
96	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> , 2015 , 163, 424-435	21.8	64
95	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
94	Evidence for CO ₂ reactive adsorption on nanoporous S- and N-doped carbon at ambient conditions. <i>Carbon</i> , 2016 , 96, 856-863	10.4	63
93	Template-derived mesoporous carbons with highly dispersed transition metals as media for the reactive adsorption of dibenzothiophene. <i>Langmuir</i> , 2007 , 23, 6033-41	4	59
92	Changes in graphite oxide texture and chemistry upon oxidation and reduction and their effect on adsorption of ammonia. <i>Carbon</i> , 2011 , 49, 4392-4402	10.4	58
91	Role of microporosity and surface chemistry in adsorption of 4,6-dimethyldibenzothiophene on polymer-derived activated carbons. <i>Fuel</i> , 2010 , 89, 1499-1507	7.1	56
90	Desulfurization of air at high and low H ₂ S concentrations. <i>Chemical Engineering Journal</i> , 2009 , 155, 594-607	14.7	54
89	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
88	Active pore space utilization in nanoporous carbon-based supercapacitors: Effects of conductivity and pore accessibility. <i>Journal of Power Sources</i> , 2012 , 220, 243-252	8.9	53
87	Adsorption of dibenzothiophenes on activated carbons with copper and iron deposited on their surfaces. <i>Fuel Processing Technology</i> , 2010 , 91, 693-701	7.2	53

86	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
85	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
84	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
83	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
82	Enhancement in dibenzothiophene reactive adsorption from liquid fuel via incorporation of sulfur heteroatoms into the nanoporous carbon matrix. <i>ChemSusChem</i> , 2011 , 4, 139-47	8.3	51
81	Removal of copper on composite sewage sludge/industrial sludge-based adsorbents: the role of surface chemistry. <i>Journal of Colloid and Interface Science</i> , 2006 , 302, 379-88	9.3	51
80	Confined space reduced graphite oxide doped with sulfur as metal-free oxygen reduction catalyst. <i>Carbon</i> , 2014 , 66, 227-233	10.4	50
79	Removal of Cationic and Ionic Dyes on Industrial/Municipal Sludge Based Composite Adsorbents. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 1786-1793	3.9	49
78	Electrochemical Reduction of Oxygen on Hydrophobic Ultramicroporous PolyHIPE Carbon. <i>ACS Catalysis</i> , 2016 , 6, 5618-5628	13.1	48
77	Role of phosphorus in carbon matrix in desulfurization of diesel fuel using adsorption process. <i>Fuel</i> , 2012 , 92, 318-326	7.1	47
76	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
75	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
74	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
73	S-doped carbon aerogels/GO composites as oxygen reduction catalysts. <i>Journal of Energy Chemistry</i> , 2016 , 25, 236-245	12	42
72	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
71	Sulfur-Doped Carbon Aerogel as a Metal-Free Oxygen Reduction Catalyst. <i>ChemCatChem</i> , 2015 , 7, 2924-2931	3.9	41
70	Sewage sludge as a single precursor for development of composite adsorbents/catalysts. <i>Chemical Engineering Journal</i> , 2007 , 128, 59-67	14.7	41
69	Surface features of exfoliated graphite/bentonite composites and their importance for ammonia adsorption. <i>Carbon</i> , 2008 , 46, 1241-1252	10.4	41

68	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
67	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
66	Nitrogen-Doped Activated Carbon-Based Ammonia Sensors: Effect of Specific Surface Functional Groups on Carbon Electronic Properties. <i>ACS Sensors</i> , 2016 , 1, 591-599	9.2	39
65	Role of Microporosity and Nitrogen Functionality on the Surface of Activated Carbon in the Process of Desulfurization of Digester Gas. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 4704-4711	3.8	39
64	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
63	Evaluation of CO ₂ interactions with S-doped nanoporous carbon and its composites with a reduced GO: Effect of surface features on an apparent physical adsorption mechanism. <i>Carbon</i> , 2016 , 98, 250-258	10.4	38
62	Combined role of water and surface chemistry in reactive adsorption of ammonia on graphite oxides. <i>Langmuir</i> , 2010 , 26, 5491-8	4	38
61	Specific anion and cation capacitance in porous carbon blacks. <i>Carbon</i> , 2010 , 48, 1767-1778	10.4	38
60	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
59	Selective Adsorption of Dibenzothiophenes on Activated Carbons with Ag, Co, and Ni Species Deposited on Their Surfaces. <i>Energy & Fuels</i> , 2009 , 23, 3737-3744	4.1	37
58	Effect of the incorporation of nitrogen to a carbon matrix on the selectivity and capacity for adsorption of dibenzothiophenes from model diesel fuel. <i>Langmuir</i> , 2010 , 26, 227-33	4	36
57	Effect of fly ash addition on the removal of hydrogen sulfide from biogas and air on sewage sludge-based composite adsorbents. <i>Waste Management</i> , 2008 , 28, 1983-92	8.6	36
56	Mesoporous Graphitic Carbon Nitride-Based Nanospheres as Visible-Light Active Chemical Warfare Agents Decontaminant. <i>ChemNanoMat</i> , 2016 , 2, 268-272	3.5	35
55	Adsorption of Uremic Toxins Using TiCT MXene for Dialysate Regeneration. <i>ACS Nano</i> , 2020 , 14, 11787-11798	10.4	35
54	Insight into ammonia sensing on heterogeneous S- and N- co-doped nanoporous carbons. <i>Carbon</i> , 2016 , 96, 1014-1021	10.4	34
53	Effect of visible light and electrode wetting on the capacitive performance of S- and N-doped nanoporous carbons: Importance of surface chemistry. <i>Carbon</i> , 2014 , 78, 540-558	10.4	34
52	Municipal waste conversion to hydrogen sulfide adsorbents: Investigation of the synergistic effects of sewage sludge/fish waste mixture. <i>Chemical Engineering Journal</i> , 2014 , 237, 88-94	14.7	34
51	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

50	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
49	Charge Storage Accessibility Factor as a Parameter Determining the Capacitive Performance of Nanoporous Carbon-Based Supercapacitors. <i>ACS Sustainable Chemistry and Engineering</i> , 2013 , 1, 1024-1032	8.3	33
48	Desulfurization of Digester Gas on Catalytic Carbonaceous Adsorbents: Complexity of Interactions between the Surface and Components of the Gaseous Mixture. <i>Industrial & Engineering Chemistry Research</i> , 2006 , 45, 3658-3665	3.9	32
47	New Cu_xSy /nanoporous carbon composites as efficient oxygen reduction catalysts in alkaline medium. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 20164-20176	13	31
46	Adsorption of hydrogen sulfide on graphite derived materials modified by incorporation of nitrogen. <i>Materials Chemistry and Physics</i> , 2009 , 113, 946-952	4.4	30
45	Role of acid mixtures etching on the surface chemistry and sodium ion storage in TiCT MXene. <i>Chemical Communications</i> , 2020 , 56, 6090-6093	5.8	29
44	Desulfurization of Digester Gas on Wood-Based Activated Carbons Modified with Nitrogen: Importance of Surface Chemistry. <i>Energy & Fuels</i> , 2008 , 22, 850-859	4.1	29
43	Visible light photoactivity of sulfur and phosphorus doped nanoporous carbons in oxidation of dibenzothiophenes. <i>Fuel</i> , 2013 , 108, 846-849	7.1	28
42	Comparison of melamine resin and melamine network as precursors for carbon electrodes. <i>Carbon</i> , 2015 , 81, 239-250	10.4	27
41	Investigation of the Thermal Regeneration Efficiency of Activated Carbons Used in the Desulfurization of Model Diesel Fuel. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 14097-14104	3.9	26
40	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
39	Enhanced adsorption of hydrogen sulfide on mixed zinc/cobalt hydroxides: effect of morphology and an increased number of surface hydroxyl groups. <i>Journal of Colloid and Interface Science</i> , 2013 , 405, 218-25	9.3	25
38	Nitrogen modified carbide-derived carbons as adsorbents of hydrogen sulfide. <i>Journal of Colloid and Interface Science</i> , 2009 , 330, 60-6	9.3	25
37	Photoluminescence of nanoporous carbons: Opening a new application route for old materials. <i>Carbon</i> , 2014 , 77, 651-659	10.4	24
36	Effects of the addition of graphite oxide to the precursor of a nanoporous carbon on the electrochemical performance of the resulting carbonaceous composites. <i>Carbon</i> , 2012 , 50, 4144-4154	10.4	24
35	Interactions of NO ₂ and NO with carbonaceous adsorbents containing silver nanoparticles. <i>Langmuir</i> , 2010 , 26, 9457-64	4	24
34	Alterations of S-doped porous carbon-rGO composites surface features upon CO ₂ adsorption at ambient conditions. <i>Carbon</i> , 2016 , 107, 501-509	10.4	23
33	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

32	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
31	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
30	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
29	Graphite oxide/AlZr polycation composites: Surface characterization and performance as adsorbents of ammonia. <i>Materials Chemistry and Physics</i> , 2009 , 117, 99-106	4.4	22
28	Adsorption of Bovine Serum Albumin on Carbon-Based Materials. <i>Journal of Carbon Research</i> , 2018 , 4, 3	3.3	21
27	Controllable atomistic graphene oxide model and its application in hydrogen sulfide removal. <i>Journal of Chemical Physics</i> , 2013 , 139, 194707	3.9	21
26	Tobacco waste/industrial sludge based desulfurization adsorbents: effect of phase interactions during pyrolysis on surface activity. <i>Environmental Science & Technology</i> , 2007 , 41, 3715-21	10.3	21
25	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
24	Effects of surface chemistry on the reactive adsorption of hydrogen cyanide on activated carbons. <i>Carbon</i> , 2009 , 47, 2456-2465	10.4	19
23	Sulfur-mediated photochemical energy harvesting in nanoporous carbons. <i>Carbon</i> , 2016 , 104, 253-259	10.4	18
22	Enhancement of Ti ₃ C ₂ MXene Pseudocapacitance after Urea Intercalation Studied by Soft X-ray Absorption Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 5079-5086	3.8	17
21	Moisture insensitive adsorption of ammonia on resorcinol-formaldehyde resins. <i>Journal of Hazardous Materials</i> , 2016 , 305, 96-104	12.8	14
20	Graphene-Based Materials for the Fast Removal of Cytokines from Blood Plasma.. <i>ACS Applied Bio Materials</i> , 2018 , 1, 436-443	4.1	14
19	Desulfurization of Digester Gas on Industrial-Sludge-Derived Adsorbents. <i>Energy & Fuels</i> , 2007 , 21, 858-866	4.1	13
18	Surface properties of porous carbons obtained from polystyrene-based polymers within inorganic templates: role of polymer chemistry and inorganic template pore structure. <i>Microporous and Mesoporous Materials</i> , 2007 , 100, 45-54	5.3	13
17	Oxygen reduction on chemically heterogeneous iron-containing nanoporous carbon: The effects of specific surface functionalities. <i>Microporous and Mesoporous Materials</i> , 2016 , 221, 137-149	5.3	12
16	Analysis of the chemical and physical factors affecting reactive adsorption of ammonia on graphene/nanoporous carbon composites. <i>Carbon</i> , 2013 , 55, 176-184	10.4	12
15	Structural and optical characterization of Zn(OH) ₂ and its composites with graphite oxides. <i>Optics Letters</i> , 2013 , 38, 962-4	3	12

14	Adsorption of ammonia on graphite oxide/Al ₁₃ composites. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2010 , 353, 30-36	5.1	12
13	Involvement of water and visible light in the enhancement in SO ₂ adsorption at ambient conditions on the surface of zinc (hydr)oxide/graphite oxide composites. <i>Chemical Engineering Journal</i> , 2013 , 223, 442-453	14.7	11
12	Interactions of Arsine with Nanoporous Carbons: Role of Heteroatoms in the Oxidation Process at Ambient Conditions. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 6527-6533	3.8	11
11	On the photoactivity of S-doped nanoporous carbons: Importance of surface chemistry and porosity. <i>Chinese Journal of Catalysis</i> , 2014 , 35, 807-814	11.3	10
10	Peculiar Properties of Mesoporous Synthetic Carbon/Graphene Phase Composites and their Effect on Supercapacitive Performance. <i>ChemSusChem</i> , 2015 , 8, 1955-65	8.3	10
9	Band gap energies of solar micro/meso-porous composites of zinc (hydr)oxide with graphite oxides. <i>Journal of Applied Physics</i> , 2013 , 114, 043522	2.5	8
8	Removal of dibenzothiophenes from model diesel fuel on sulfur rich activated carbons. <i>Applied Catalysis B: Environmental</i> , 2011 ,	21.8	8
7	Carbon phase-graphite oxide composites based on solid state interactions between the components: Importance of surface chemistry and microstructure. <i>Carbon</i> , 2015 , 95, 580-588	10.4	7
6	Time-resolved photoluminescence of Zn(OH) ₂ and its composites with graphite oxides. <i>Optics Letters</i> , 2013 , 38, 2227-9	3	5
5	Preparation of synthetic carbon adsorbents and investigation on porous structure of obtained adsorbents with β method. <i>Materials Chemistry and Physics</i> , 2003 , 82, 165-172	4.4	5
4	Delamination of MXenes using Bovine Serum Albumin. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022 , 128580	5.1	4
3	Hybrid solar cells of micro/mesoporous Zn(OH) ₂ and its graphite composites sensitized by CdSe quantum dots. <i>Journal of Photonics for Energy</i> , 2014 , 4, 043098	1.2	3
2	Time-resolved fluorescence and ultrafast energy transfer in a zinc (hydr)oxide/graphite oxide mesoporous composite. <i>Journal of Photonics for Energy</i> , 2015 , 5, 053084	1.2	1
1	The effects of fabrication temperature on current-voltage characteristics and energy efficiencies of quantum dot sensitized ZnOH-GO hybrid solar cells. <i>Journal of Applied Physics</i> , 2014 , 116, 173102	2.5	