Mykola Seredych

List of Publications by Year
in descending order

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122	8,644	38660 50	45213 90
papers	citations	h-index	g-index

123	123	123	10052
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Delamination of MXenes using bovine serum albumin. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 641, 128580.	2.3	15
2	Adsorption of Uremic Toxins Using Ti₃C₂T_x MXene for Dialysate Regeneration. ACS Nano, 2020, 14, 11787-11798.	7.3	71
3	Enhancement of Ti₃C₂ MXene Pseudocapacitance after Urea Intercalation Studied by Soft X-ray Absorption Spectroscopy. Journal of Physical Chemistry C, 2020, 124, 5079-5086.	1.5	46
4	Role of acid mixtures etching on the surface chemistry and sodium ion storage in Ti₃C₂T_x MXene. Chemical Communications, 2020, 56, 6090-6093.	2.2	76
5	High-Temperature Behavior and Surface Chemistry of Carbide MXenes Studied by Thermal Analysis. Chemistry of Materials, 2019, 31, 3324-3332.	3.2	296
6	MXene Sorbents for Removal of Urea from Dialysate: A Step toward the Wearable Artificial Kidney. ACS Nano, 2018, 12, 10518-10528.	7.3	174
7	Graphene-Based Materials for the Fast Removal of Cytokines from Blood Plasma. ACS Applied Bio Materials, 2018, 1, 436-443.	2.3	22
8	Adsorption of Bovine Serum Albumin on Carbon-Based Materials. Journal of Carbon Research, 2018, 4, 3.	1.4	32
9	Pyridinic-N groups and ultramicropore nanoreactors enhance CO2 electrochemical reduction on porous carbon catalysts. Applied Catalysis B: Environmental, 2017, 207, 195-206.	10.8	91
10	Nitrogen enrichment of S-doped nanoporous carbon by g-C3N4: Insight into photosensitivity enhancement. Carbon, 2016, 107, 895-906.	5.4	28
11	Electrochemical Reduction of Oxygen on Hydrophobic Ultramicroporous PolyHIPE Carbon. ACS Catalysis, 2016, 6, 5618-5628.	5.5	67
12	Metalâ€free Nanoporous Carbon as a Catalyst for Electrochemical Reduction of CO₂ to CO and CH₄. ChemSusChem, 2016, 9, 606-616.	3.6	149
13	Photoactivity of gâ€C₃N₄/Sâ€Doped Porous Carbon Composite: Synergistic Effect of Composite Formation. ChemSusChem, 2016, 9, 795-799.	3.6	55
14	Sulfur-mediated photochemical energy harvesting in nanoporous carbons. Carbon, 2016, 104, 253-259.	5.4	20
15	Alterations of S-doped porous carbon-rGO composites surface features upon CO2 adsorption at ambient conditions. Carbon, 2016, 107, 501-509.	5.4	33
16	Mesoporous Graphitic Carbon Nitrideâ€Based Nanospheres as Visibleâ€Light Active Chemical Warfare Agents Decontaminant. ChemNanoMat, 2016, 2, 268-272.	1.5	42
17	S-doped carbon aerogels/GO composites as oxygen reduction catalysts. Journal of Energy Chemistry, 2016, 25, 236-245.	7.1	50
18	Nitrogen-Doped Activated Carbon-Based Ammonia Sensors: Effect of Specific Surface Functional Groups on Carbon Electronic Properties. ACS Sensors, 2016, 1, 591-599.	4.0	48

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19	Moisture insensitive adsorption of ammonia on resorcinol-formaldehyde resins. Journal of Hazardous Materials, 2016, 305, 96-104.	6.5	18
20	Insight into ammonia sensing on heterogeneous S- and N- co-doped nanoporous carbons. Carbon, 2016, 96, 1014-1021.	5.4	40
21	Evaluation of CO2 interactions with S-doped nanoporous carbon and its composites with a reduced GO: Effect of surface features on an apparent physical adsorption mechanism. Carbon, 2016, 98, 250-258.	5.4	51
22	Evidence for CO2 reactive adsorption on nanoporous S- and N-doped carbon at ambient conditions. Carbon, 2016, 96, 856-863.	5.4	79
23	Oxygen reduction on chemically heterogeneous iron-containing nanoporous carbon: The effects of specific surface functionalities. Microporous and Mesoporous Materials, 2016, 221, 137-149.	2.2	13
24	Peculiar Properties of Mesoporous Synthetic Carbon/Graphene Phase Composites and their Effect on Supercapacitive Performance. ChemSusChem, 2015, 8, 1955-1965.	3.6	10
25	Sulfurâ€Doped Carbon Aerogel as a Metalâ€Free Oxygen Reduction Catalyst. ChemCatChem, 2015, 7, 2924-2931.	1.8	50
26	Carbon phase-graphite oxide composites based on solid state interactions between the components: Importance of surface chemistry and microstructure. Carbon, 2015, 95, 580-588.	5.4	8
27	Time-resolved fluorescence and ultrafast energy transfer in a zinc (hydr)oxideâ€“graphite oxide mesoporous composite. Journal of Photonics for Energy, 2015, 5, 053084.	0.8	1
28	Activated carbon-based gas sensors: effects of surface features on the sensing mechanism. Journal of Materials Chemistry A, 2015, 3, 3821-3831.	5.2	87
29	Effect of nanoporous carbon surface chemistry on the removal of endocrine disruptors from water phase. Journal of Colloid and Interface Science, 2015, 449, 180-191.	5.0	40
30	Comparison of melamine resin and melamine network as precursors for carbon electrodes. Carbon, 2015, 81, 239-250.	5.4	29
31	New copper/GO based material as an efficient oxygen reduction catalyst in an alkaline medium: The role of unique Cu/rGO architecture. Applied Catalysis B: Environmental, 2015, 163, 424-435.	10.8	77
32	The effects of fabrication temperature on current-voltage characteristics and energy efficiencies of quantum dot sensitized ZnOH-GO hybrid solar cells. Journal of Applied Physics, 2014, 116, 173102.	1.1	0
33	New Cu_xS_y/nanoporous carbon composites as efficient oxygen reduction catalysts in alkaline medium. Journal of Materials Chemistry A, 2014, 2, 20164-20176.	5.2	34
34	Municipal waste conversion to hydrogen sulfide adsorbents: Investigation of the synergistic effects of sewage sludge/fish waste mixture. Chemical Engineering Journal, 2014, 237, 88-94.	6.6	39
35	Insight into the Capacitive Performance of Sulfurâ€Doped Nanoporous Carbons Modified by Addition of Graphene Phase. Electroanalysis, 2014, 26, 109-120.	1.5	54
36	Insight into the mechanism of CO2 adsorption on Cuâ€“BTC and its composites with graphite oxide or aminated graphite oxide. Chemical Engineering Journal, 2014, 239, 399-407.	6.6	71

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37	Hybrid solar cells of micro/mesoporous Zn(OH)2 and its graphite composites sensitized by CdSe quantum dots. Journal of Photonics for Energy, 2014, 4, 043098.	0.8	3
38	Effect of Visibleâ€Light Exposure and Electrolyte Oxygen Content on the Capacitance of Sulfurâ€Doped Carbon. ChemElectroChem, 2014, 1, 565-572.	1.7	24
39	Removal of dorzolamide from biomedical wastewaters with adsorption onto graphite oxide/poly(acrylic acid) grafted chitosan nanocomposite. Bioresource Technology, 2014, 152, 399-406.	4.8	110
40	Effect of visible light and electrode wetting on the capacitive performance of S- and N-doped nanoporous carbons: Importance of surface chemistry. Carbon, 2014, 78, 540-558.	5.4	37
41	Visible light driven photoelectrochemical water splitting on metal free nanoporous carbon promoted by chromophoric functional groups. Carbon, 2014, 79, 432-441.	5.4	47
42	Confined space reduced graphite oxide doped with sulfur as metal-free oxygen reduction catalyst. Carbon, 2014, 66, 227-233.	5.4	54
43	Effect of the graphene phase presence in nanoporous S-doped carbon on photoactivity in UV and visible light. Applied Catalysis B: Environmental, 2014, 147, 842-850.	10.8	23
44	Photoluminescence of nanoporous carbons: Opening a new application route for old materials. Carbon, 2014, 77, 651-659.	5.4	25
45	On the photoactivity of S-doped nanoporous carbons: Importance of surface chemistry and porosity. Chinese Journal of Catalysis, 2014, 35, 807-814.	6.9	10
46	Complexity of CO2 adsorption on nanoporous sulfur-doped carbons â€“ Is surface chemistry an important factor?. Carbon, 2014, 74, 207-217.	5.4	109
47	Aminated graphite oxides and their composites with copper-based metalâ€“organic framework: in search for efficient media for CO2 sequestration. RSC Advances, 2013, 3, 9932.	1.7	59
48	Analysis of factors affecting visible and UV enhanced oxidation of dibenzothiophenes on sulfur-doped activated carbons. Carbon, 2013, 62, 356-364.	5.4	25
49	Controllable atomistic graphene oxide model and its application in hydrogen sulfide removal. Journal of Chemical Physics, 2013, 139, 194707.	1.2	23
50	Reactive adsorption of hydrogen sulfide on visible light photoactive zinc (hydr)oxide/graphite oxide and zinc (hydr)oxychloride/graphite oxide composites. Applied Catalysis B: Environmental, 2013, 132-133, 321-331.	10.8	43
51	Visible light photoactivity of sulfur and phosphorus doped nanoporous carbons in oxidation of dibenzothiophenes. Fuel, 2013, 108, 846-849.	3.4	28
52	Analysis of the chemical and physical factors affecting reactive adsorption of ammonia on graphene/nanoporous carbon composites. Carbon, 2013, 55, 176-184.	5.4	20
53	Enhanced adsorption of hydrogen sulfide on mixed zinc/cobalt hydroxides: Effect of morphology and an increased number of surface hydroxyl groups. Journal of Colloid and Interface Science, 2013, 405, 218-225.	5.0	27
54	Involvement of water and visible light in the enhancement in SO2 adsorption at ambient conditions on the surface of zinc (hydr)oxide/graphite oxide composites. Chemical Engineering Journal, 2013, 223, 442-453.	6.6	12

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55	Superior Performance of Copper Based MOF and Aminated Graphite Oxide Composites as CO₂ Adsorbents at Room Temperature. ACS Applied Materials & Interfaces, 2013, 5, 4951-4959.	4.0	93
56	Charge Storage Accessibility Factor as a Parameter Determining the Capacitive Performance of Nanoporous Carbon-Based Supercapacitors. ACS Sustainable Chemistry and Engineering, 2013, 1, 1024-1032.	3.2	36
57	Band gap energies of solar micro/meso-porous composites of zinc (hydr)oxide with graphite oxides. Journal of Applied Physics, 2013, 114, 043522.	1.1	9
58	Effect of confined space reduction of graphite oxide followed by sulfur doping on oxygen reduction reaction in neutral electrolyte. Journal of Materials Chemistry A, 2013, 1, 7059.	5.2	56
59	S-doped micro/mesoporous carbonâ€“graphene composites as efficient supercapacitors in alkaline media. Journal of Materials Chemistry A, 2013, 1, 11717.	5.2	144
60	Time-resolved photoluminescence of Zn(OH)_2 and its composites with graphite oxides. Optics Letters, 2013, 38, 2227.	1.7	5
61	Optical properties of porous nano-composites of zinc (hydr)oxide with graphite oxide. , 2013, , .		1
62	Structural and optical characterization of Zn(OH)_2and its composites with graphite oxides. Optics Letters, 2013, 38, 962.	1.7	17
63	Photoactivity of S-doped nanoporous activated carbons: A new perspective for harvesting solar energy on carbon-based semiconductors. Applied Catalysis A: General, 2012, 445-446, 159-165.	2.2	85
64	Visible-Light-Enhanced Interactions of Hydrogen Sulfide with Composites of Zinc (Oxy)hydroxide with Graphite Oxide and Graphene. Langmuir, 2012, 28, 1337-1346.	1.6	76
65	Zinc (hydr)oxide/graphite based-phase composites: effect of the carbonaceous phase on surface properties and enhancement in electrical conductivity. Journal of Materials Chemistry, 2012, 22, 7970.	6.7	50
66	Evaluation of GO/MnO2 composites as supercapacitors in neutral electrolytes: role of graphite oxide oxidation level. Journal of Materials Chemistry, 2012, 22, 23525.	6.7	37
67	Removal of antibiotics from water using sewage sludge- and waste oil sludge-derived adsorbents. Water Research, 2012, 46, 4081-4090.	5.3	101
68	Active pore space utilization in nanoporous carbon-based supercapacitors: Effects of conductivity and pore accessibility. Journal of Power Sources, 2012, 220, 243-252.	4.0	59
69	Interactions of NO₂ with Zinc (Hydr)oxide/Graphene Phase Composites: Visible Light Enhanced Surface Reactivity. Journal of Physical Chemistry C, 2012, 116, 2527-2535.	1.5	23
70	Enhanced Reactive Adsorption of Hydrogen Sulfide on the Composites of Graphene/Graphite Oxide with Copper (Hydr)oxychlorides. ACS Applied Materials & Interfaces, 2012, 4, 3316-3324.	4.0	94
71	Effects of the addition of graphite oxide to the precursor of a nanoporous carbon on the electrochemical performance of the resulting carbonaceous composites. Carbon, 2012, 50, 4144-4154.	5.4	24
72	Role of phosphorus in carbon matrix in desulfurization of diesel fuel using adsorption process. Fuel, 2012, 92, 318-326.	3.4	54

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73	Cobalt (hydr)oxide/graphite oxide composites: Importance of surface chemical heterogeneity for reactive adsorption of hydrogen sulfide. Journal of Colloid and Interface Science, 2012, 378, 1-9.	5.0	45
74	Manganese oxide and graphite oxide/MnO2 composites as reactive adsorbents of ammonia at ambient conditions. Microporous and Mesoporous Materials, 2012, 150, 55-63.	2.2	60
75	Investigation of the Thermal Regeneration Efficiency of Activated Carbons Used in the Desulfurization of Model Diesel Fuel. Industrial & Engineering Chemistry Research, 2011, 50, 14097-14104.	1.8	29
76	Reactive adsorption of hydrogen sulfide on graphite oxide/Zr(OH)4 composites. Chemical Engineering Journal, 2011, 166, 1032-1038.	6.6	86
77	Enhancement in Dibenzothiophene Reactive Adsorption from Liquid Fuel via Incorporation of Sulfur Heteroatoms into the Nanoporous Carbon Matrix. ChemSusChem, 2011, 4, 139-147.	3.6	53
78	Investigation of the enhancing effects of sulfur and/or oxygen functional groups of nanoporous carbons on adsorption of dibenzothiophenes. Carbon, 2011, 49, 1216-1224.	5.4	60
79	Changes in graphite oxide texture and chemistry upon oxidation and reduction and their effect on adsorption of ammonia. Carbon, 2011, 49, 4392-4402.	5.4	70
80	Removal of dibenzothiophenes from model diesel fuel on sulfur rich activated carbons. Applied Catalysis B: Environmental, 2011, , .	10.8	9
81	Graphite Oxides Obtained from Porous Graphite: The Role of Surface Chemistry and Texture in Ammonia Retention at Ambient Conditions. Advanced Functional Materials, 2010, 20, 1670-1679.	7.8	88
82	Role of microporosity and surface chemistry in adsorption of 4,6-dimethyldibenzothiophene on polymer-derived activated carbons. Fuel, 2010, 89, 1499-1507.	3.4	61
83	Adsorption of dibenzothiophenes on activated carbons with copper and iron deposited on their surfaces. Fuel Processing Technology, 2010, 91, 693-701.	3.7	58
84	Adsorption of ammonia on graphite oxide/Al13 composites. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2010, 353, 30-36.	2.3	13
85	Specific anion and cation capacitance in porous carbon blacks. Carbon, 2010, 48, 1767-1778.	5.4	45
86	Adsorption of Dibenzothiophenes on Nanoporous Carbons: Identification of Specific Adsorption Sites Governing Capacity and Selectivity. Energy & Fuels, 2010, 24, 3352-3360.	2.5	82
87	Interactions of Arsine with Nanoporous Carbons: Role of Heteroatoms in the Oxidation Process at Ambient Conditions. Journal of Physical Chemistry C, 2010, 114, 6527-6533.	1.5	12
88	Effects of Surface Features on Adsorption of SO₂ on Graphite Oxide/Zr(OH)₄ Composites. Journal of Physical Chemistry C, 2010, 114, 14552-14560.	1.5	87
89	Effect of the Incorporation of Nitrogen to a Carbon Matrix on the Selectivity and Capacity for Adsorption of Dibenzothiophenes from Model Diesel Fuel. Langmuir, 2010, 26, 227-233.	1.6	38
90	Combined Role of Water and Surface Chemistry in Reactive Adsorption of Ammonia on Graphite Oxides. Langmuir, 2010, 26, 5491-5498.	1.6	44

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91	Interactions of NO₂ and NO with Carbonaceous Adsorbents Containing Silver Nanoparticles. Langmuir, 2010, 26, 9457-9464.	1.6	29
92	Interactions of 4,6-Dimethyldibenzothiophene with the Surface of Activated Carbons. Langmuir, 2009, 25, 9302-9312.	1.6	74
93	Adsorption of hydrogen sulfide on graphite derived materials modified by incorporation of nitrogen. Materials Chemistry and Physics, 2009, 113, 946-952.	2.0	36
94	Graphite oxide/AlZr polycation composites: Surface characterization and performance as adsorbents of ammonia. Materials Chemistry and Physics, 2009, 117, 99-106.	2.0	27
95	Combined Effect of Nitrogenâ€•and Oxygenâ€Containing Functional Groups of Microporous Activated Carbon on its Electrochemical Performance in Supercapacitors. Advanced Functional Materials, 2009, 19, 438-447.	7.8	1,475
96	Nitrogen modified carbide-derived carbons as adsorbents of hydrogen sulfide. Journal of Colloid and Interface Science, 2009, 330, 60-66.	5.0	27
97	Desulfurization of air at high and low H2S concentrations. Chemical Engineering Journal, 2009, 155, 594-602.	6.6	68
98	Role of graphite precursor in the performance of graphite oxides as ammonia adsorbents. Carbon, 2009, 47, 445-456.	5.4	111
99	Effect of surface phosphorus functionalities of activated carbons containing oxygen and nitrogen on electrochemical capacitance. Carbon, 2009, 47, 1576-1584.	5.4	126
100	Effects of surface chemistry on the reactive adsorption of hydrogen cyanide on activated carbons. Carbon, 2009, 47, 2456-2465.	5.4	20
101	Textural and chemical factors affecting adsorption capacity of activated carbon in highly efficient desulfurization of diesel fuel. Carbon, 2009, 47, 2491-2500.	5.4	160
102	Selective Adsorption of Dibenzothiophenes on Activated Carbons with Ag, Co, and Ni Species Deposited on Their Surfaces. Energy & Fuels, 2009, 23, 3737-3744.	2.5	38
103	Revisiting the chemistry of graphite oxides and its effect on ammonia adsorption. Journal of Materials Chemistry, 2009, 19, 9176.	6.7	235
104	Adsorption of ammonia on graphite oxide/aluminium polycation and graphite oxide/zirconiumâ€“aluminium polyoxycation composites. Journal of Colloid and Interface Science, 2008, 324, 25-35.	5.0	43
105	Surface features of exfoliated graphite/bentonite composites and their importance for ammonia adsorption. Carbon, 2008, 46, 1241-1252.	5.4	44
106	Effect of fly ash addition on the removal of hydrogen sulfide from biogas and air on sewage sludge-based composite adsorbents. Waste Management, 2008, 28, 1983-1992.	3.7	43
107	Surface functional groups of carbons and the effects of their chemical character, density and accessibility to ions on electrochemical performance. Carbon, 2008, 46, 1475-1488.	5.4	774
108	Desulfurization of Digester Gas on Wood-Based Activated Carbons Modified with Nitrogen: Importance of Surface Chemistry. Energy & Fuels, 2008, 22, 850-859.	2.5	36

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109	Role of Microporosity and Nitrogen Functionality on the Surface of Activated Carbon in the Process of Desulfurization of Digester Gas. Journal of Physical Chemistry C, 2008, 112, 4704-4711.	1.5	48
110	Removal of Cationic and Ionic Dyes on Industrialâ^'Municipal Sludge Based Composite Adsorbents. Industrial & Engineering Chemistry Research, 2007, 46, 1786-1793.	1.8	54
111	Silicaâ^'Polyamine-Based Carbon Composite Adsorbents as Media for Effective Hydrogen Sulfide Adsorption/Oxidation. Chemistry of Materials, 2007, 19, 2500-2511.	3.2	23
112	Tobacco Waste/Industrial Sludge Based Desulfurization Adsorbents:Â Effect of Phase Interactions during Pyrolysis on Surface Activity. Environmental Science & Technology, 2007, 41, 3715-3721.	4.6	21
113	Template-Derived Mesoporous Carbons with Highly Dispersed Transition Metals as Media for the Reactive Adsorption of Dibenzothiophene. Langmuir, 2007, 23, 6033-6041.	1.6	64
114	Desulfurization of Digester Gas on Industrial-Sludge-Derived Adsorbents. Energy & Fuels, 2007, 21, 858-866.	2.5	14
115	Role of Graphite Oxide (GO) and Polyaniline (PANI) in NO₂ Reduction on GO-PANI Composites. Industrial & Engineering Chemistry Research, 2007, 46, 6925-6935.	1.8	53
116	Removal of ammonia by graphite oxide via its intercalation and reactive adsorption. Carbon, 2007, 45, 2130-2132.	5.4	82
117	Sewage sludge as a single precursor for development of composite adsorbents/catalysts. Chemical Engineering Journal, 2007, 128, 59-67.	6.6	46
118	Surface properties of porous carbons obtained from polystyrene-based polymers within inorganic templates: role of polymer chemistry and inorganic template pore structure. Microporous and Mesoporous Materials, 2007, 100, 45-54.	2.2	14
119	Mechanism of Ammonia Retention on Graphite Oxides:â€‰ Role of Surface Chemistry and Structure. Journal of Physical Chemistry C, 2007, 111, 15596-15604.	1.5	162
120	Desulfurization of Digester Gas on Catalytic Carbonaceous Adsorbents:Â Complexity of Interactions between the Surface and Components of the Gaseous Mixture. Industrial & Engineering Chemistry Research, 2006, 45, 3658-3665.	1.8	38
121	Removal of copper on composite sewage sludge/industrial sludge-based adsorbents: The role of surface chemistry. Journal of Colloid and Interface Science, 2006, 302, 379-388.	5.0	53
122	Preparation of synthetic carbon adsorbents and investigation on porous structure of obtained adsorbents with Î±s method. Materials Chemistry and Physics, 2003, 82, 165-172.	2.0	7