Tetyana M Budnyak

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Tailoring Nanoadsorbent Surfaces: Separation of Rare Earths and Late Transition Metals in Recycling of Magnet Materials. Nanomaterials, 2022, 12, 974.	4.1	14
2	Reaction pathways on N-substituted carbon catalysts during the electrochemical reduction of nitrate to ammonia. Catalysis Science and Technology, 2022, 12, 3582-3593.	4.1	6
3	Sustainable Liâ€lon Batteries: Chemistry and Recycling. Advanced Energy Materials, 2021, 11, 2003456.	19.5	157
4	Mesoporous silica adsorbents modified with amino polycarboxylate ligands – functional characteristics, health and environmental effects. Journal of Hazardous Materials, 2021, 406, 124698.	12.4	31
5	Nucleotide Interaction with a Chitosan Layer on a Silica Surface: Establishing the Mechanism at the Molecular Level. Langmuir, 2021, 37, 1511-1520.	3.5	12
6	Graphitic nitrogen in carbon catalysts is important for the reduction of nitrite as revealed by naturally abundant ¹⁵ N NMR spectroscopy. Dalton Transactions, 2021, 50, 6857-6866.	3.3	8
7	"Artificial Wood―Lignocellulosic Membranes: Influence of Kraft Lignin on the Properties and Gas Transport in Tunicate-Based Nanocellulose Composites. Membranes, 2021, 11, 204.	3.0	2
8	Combining Electrocatalysts and Biobased Adsorbents for Sustainable Denitrification. ACS Sustainable Chemistry and Engineering, 2021, 9, 3658-3667.	6.7	9
9	Biocoatings and additives as promising candidates for ultralow friction systems. Green Chemistry Letters and Reviews, 2021, 14, 358-381.	4.7	8
10	Toward Sustainable Li-Ion Battery Recycling: Green Metal–Organic Framework as a Molecular Sieve for the Selective Separation of Cobalt and Nickel. ACS Sustainable Chemistry and Engineering, 2021, 9, 9770-9778.	6.7	22
11	LignoPhot: Conversion of hydrolysis lignin into the photoactive hybrid lignin/Bi4O5Br2/BiOBr composite for simultaneous dyes oxidation and Co2+ and Ni2+ recycling. Chemosphere, 2021, 279, 130538.	8.2	21
12	Nanostructured core–shell metal borides–oxides as highly efficient electrocatalysts for photoelectrochemical water oxidation. Nanoscale, 2020, 12, 3121-3128.	5.6	29
13	Exploring the Origins of Improved Photocurrent by Acidic Treatment for Quaternary Tantalum-Based Oxynitride Photoanodes on the Example of CaTaO ₂ N. Journal of Physical Chemistry C, 2020, 124, 152-160.	3.1	28
14	Tailored Hydrophobic/Hydrophilic Lignin Coatings on Mesoporous Silica for Sustainable Cobalt(II) Recycling. ACS Sustainable Chemistry and Engineering, 2020, 8, 16262-16273.	6.7	18
15	Glycine-functionalized silica as sorbent for cobalt(II) and nickel(II) recovery. Applied Surface Science, 2020, 530, 147299.	6.1	22
16	Valorisation of used lithium-ion batteries into nanostructured catalysts for green hydrogen from boranes. Materials Advances, 2020, 1, 2279-2285.	5.4	4
17	<i>CelluPhot</i> : Hybrid Celluloseâ^Bismuth Oxybromide Membrane for Pollutant Removal. ACS Applied Materials & amp; Interfaces, 2020, 12, 42891-42901.	8.0	29
18	NiO/Poly(4-alkylthiazole) Hybrid Interface for Promoting Spatial Charge Separation in Photoelectrochemical Water Reduction. ACS Applied Materials & Interfaces, 2020, 12, 29173-29180.	8.0	7

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19	Chitosan Deposited onto Fumed Silica Surface as Sustainable Hybrid Biosorbent for Acid Orange 8 Dye Capture: Effect of Temperature in Adsorption Equilibrium and Kinetics. Journal of Physical Chemistry C, 2020, 124, 15312-15323.	3.1	25
20	Membrane-Filtered Kraft Lignin–Silica Hybrids as Bio-Based Sorbents for Cobalt(II) Ion Recycling. ACS Omega, 2020, 5, 10847-10856.	3.5	27
21	Lignin–Inorganic Interfaces: Chemistry and Applications from Adsorbents to Catalysts and Energy Storage Materials. ChemSusChem, 2020, 13, 4344-4355.	6.8	68
22	Bile acids adsorption by chitoan-fumed silica enterosorbent. Colloids and Interface Science Communications, 2019, 32, 100194.	4.1	18
23	Lanthanum and copper ions recovery from nickel-metal hydride cells leaching solutions by the oxide adsorbent PyroloxA®. Journal of Environmental Chemical Engineering, 2019, 7, 103003.	6.7	4
24	Electrostatic Deposition of the Oxidized Kraft Lignin onto the Surface of Aminosilicas: Thermal and Structural Characteristics of Hybrid Materials. ACS Omega, 2019, 4, 22530-22539.	3.5	10
25	Solvent fractionation of softwood and hardwood kraft lignins for more efficient uses: Compositional, structural, thermal, antioxidant and adsorption properties. Industrial Crops and Products, 2019, 129, 123-134.	5.2	116
26	Imidazole-2yl-Phosphonic Acid Derivative Grafted onto Mesoporous Silica Surface as a Novel Highly Effective Sorbent for Uranium(VI) Ion Extraction. ACS Applied Materials & Interfaces, 2018, 10, 6681-6693.	8.0	68
27	Chitosan–Silica Hybrid Composites for Removal of Sulfonated Azo Dyes from Aqueous Solutions. Langmuir, 2018, 34, 2258-2273.	3.5	79
28	Peculiarities of Synthesis and Properties of Lignin–Silica Nanocomposites Prepared by Sol-Gel Method. Nanomaterials, 2018, 8, 950.	4.1	32
29	Methylene Blue dye sorption by hybrid materials from technical lignins. Journal of Environmental Chemical Engineering, 2018, 6, 4997-5007.	6.7	81
30	Walnut shells as a potential low-cost lignocellulosic sorbent for dyes and metal ions. Cellulose, 2018, 25, 4729-4742.	4.9	28
31	Multifunctional Magnetic Nanocomposites on the Base of Magnetite and Hydroxyapatite for Oncology Applications. Springer Proceedings in Physics, 2018, , 35-47.	0.2	9
32	Metal Ions Removal Using Nano Oxide Pyroloxâ,,¢ Material. Nanoscale Research Letters, 2017, 12, 95.	5.7	30
33	Natural Minerals Coated by Biopolymer Chitosan: Synthesis, Physicochemical, and Adsorption Properties. Nanoscale Research Letters, 2016, 11, 492.	5.7	24
34	Silica with immobilized phosphinic acid-derivative for uranium extraction. Journal of Hazardous Materials, 2016, 314, 326-340.	12.4	79
35	Preparation and properties of organomineral adsorbent obtained by sol–gel technology. Journal of Thermal Analysis and Calorimetry, 2016, 125, 1335-1351.	3.6	29
36	Adsorption of V(V), Mo(VI) and Cr(VI) Oxoanions by Chitosan–Silica Composite Synthesized by Mannich Reaction. Adsorption Science and Technology, 2015, 33, 645-657.	3.2	25

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37	Synthesis and adsorption properties of chitosan-silica nanocomposite prepared by sol-gel method. Nanoscale Research Letters, 2015, 10, 87.	5.7	143
38	Chitosan Immobilized on Silica Surface for Wastewater Treatment. Medziagotyra, 2014, 20, .	0.2	18