

Tetyana M Budnyak

List of Publications by Year in descending order

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38
papers

1,340
citations

331259

21
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344852

36
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46
all docs

46
docs citations

46
times ranked

1587
citing authors

#	ARTICLE	IF	CITATIONS
1	Sustainable Li-ion Batteries: Chemistry and Recycling. <i>Advanced Energy Materials</i> , 2021, 11, 2003456.	10.2	157
2	Synthesis and adsorption properties of chitosan-silica nanocomposite prepared by sol-gel method. <i>Nanoscale Research Letters</i> , 2015, 10, 87.	3.1	143
3	Solvent fractionation of softwood and hardwood kraft lignins for more efficient uses: Compositional, structural, thermal, antioxidant and adsorption properties. <i>Industrial Crops and Products</i> , 2019, 129, 123-134.	2.5	116
4	Methylene Blue dye sorption by hybrid materials from technical lignins. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 4997-5007.	3.3	81
5	Silica with immobilized phosphinic acid-derivative for uranium extraction. <i>Journal of Hazardous Materials</i> , 2016, 314, 326-340.	6.5	79
6	Chitosan-Silica Hybrid Composites for Removal of Sulfonated Azo Dyes from Aqueous Solutions. <i>Langmuir</i> , 2018, 34, 2258-2273.	1.6	79
7	Imidazole-2-yl-Phosphonic Acid Derivative Grafted onto Mesoporous Silica Surface as a Novel Highly Effective Sorbent for Uranium(VI) Ion Extraction. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 6681-6693.	4.0	68
8	Lignin-Inorganic Interfaces: Chemistry and Applications from Adsorbents to Catalysts and Energy Storage Materials. <i>ChemSusChem</i> , 2020, 13, 4344-4355.	3.6	68
9	Peculiarities of Synthesis and Properties of Lignin-Silica Nanocomposites Prepared by Sol-Gel Method. <i>Nanomaterials</i> , 2018, 8, 950.	1.9	32
10	Mesoporous silica adsorbents modified with amino polycarboxylate ligands - functional characteristics, health and environmental effects. <i>Journal of Hazardous Materials</i> , 2021, 406, 124698.	6.5	31
11	Metal Ions Removal Using Nano Oxide Pyrolox ₂ Material. <i>Nanoscale Research Letters</i> , 2017, 12, 95.	3.1	30
12	Preparation and properties of organomineral adsorbent obtained by sol-gel technology. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016, 125, 1335-1351.	2.0	29
13	Nanostructured core-shell metal borides oxides as highly efficient electrocatalysts for photoelectrochemical water oxidation. <i>Nanoscale</i> , 2020, 12, 3121-3128.	2.8	29
14	CelluPhot: Hybrid Cellulose-Bismuth Oxybromide Membrane for Pollutant Removal. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 42891-42901.	4.0	29
15	Walnut shells as a potential low-cost lignocellulosic sorbent for dyes and metal ions. <i>Cellulose</i> , 2018, 25, 4729-4742.	2.4	28
16	Exploring the Origins of Improved Photocurrent by Acidic Treatment for Quaternary Tantalum-Based Oxynitride Photoanodes on the Example of CaTaO ₂ N. <i>Journal of Physical Chemistry C</i> , 2020, 124, 152-160.	1.5	28
17	Membrane-Filtered Kraft Lignin-Silica Hybrids as Bio-Based Sorbents for Cobalt(II) Ion Recycling. <i>ACS Omega</i> , 2020, 5, 10847-10856.	1.6	27
18	Adsorption of V(V), Mo(VI) and Cr(VI) Oxoanions by Chitosan-Silica Composite Synthesized by Mannich Reaction. <i>Adsorption Science and Technology</i> , 2015, 33, 645-657.	1.5	25

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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. <i>Journal of Physical Chemistry C</i> , 2020, 124, 15312-15323.	1.5	25
20	Natural Minerals Coated by Biopolymer Chitosan: Synthesis, Physicochemical, and Adsorption Properties. <i>Nanoscale Research Letters</i> , 2016, 11, 492.	3.1	24
21	Glycine-functionalized silica as sorbent for cobalt(II) and nickel(II) recovery. <i>Applied Surface Science</i> , 2020, 530, 147299.	3.1	22
22	Toward Sustainable Li-Ion Battery Recycling: Green Metal-Organic Framework as a Molecular Sieve for the Selective Separation of Cobalt and Nickel. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 9770-9778.	3.2	22
23	LignoPhot: Conversion of hydrolysis lignin into the photoactive hybrid lignin/Bi ₄ O ₅ Br ₂ /BiOBr composite for simultaneous dyes oxidation and Co ²⁺ and Ni ²⁺ recycling. <i>Chemosphere</i> , 2021, 279, 130538.	4.2	21
24	Chitosan Immobilized on Silica Surface for Wastewater Treatment. <i>Medziagotyra</i> , 2014, 20, .	0.1	18
25	Bile acids adsorption by chitoan-fumed silica enterosorbent. <i>Colloids and Interface Science Communications</i> , 2019, 32, 100194.	2.0	18
26	Tailored Hydrophobic/Hydrophilic Lignin Coatings on Mesoporous Silica for Sustainable Cobalt(II) Recycling. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 16262-16273.	3.2	18
27	Tailoring Nanoadsorbent Surfaces: Separation of Rare Earths and Late Transition Metals in Recycling of Magnet Materials. <i>Nanomaterials</i> , 2022, 12, 974.	1.9	14
28	Nucleotide Interaction with a Chitosan Layer on a Silica Surface: Establishing the Mechanism at the Molecular Level. <i>Langmuir</i> , 2021, 37, 1511-1520.	1.6	12
29	Electrostatic Deposition of the Oxidized Kraft Lignin onto the Surface of Aminosilicas: Thermal and Structural Characteristics of Hybrid Materials. <i>ACS Omega</i> , 2019, 4, 22530-22539.	1.6	10
30	Combining Electrocatalysts and Biobased Adsorbents for Sustainable Denitrification. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 3658-3667.	3.2	9
31	Multifunctional Magnetic Nanocomposites on the Base of Magnetite and Hydroxyapatite for Oncology Applications. <i>Springer Proceedings in Physics</i> , 2018, , 35-47.	0.1	9
32	Graphitic nitrogen in carbon catalysts is important for the reduction of nitrite as revealed by naturally abundant ¹⁵ N NMR spectroscopy. <i>Dalton Transactions</i> , 2021, 50, 6857-6866.	1.6	8
33	Biocoatings and additives as promising candidates for ultralow friction systems. <i>Green Chemistry Letters and Reviews</i> , 2021, 14, 358-381.	2.1	8
34	NiO/Poly(4-alkylthiazole) Hybrid Interface for Promoting Spatial Charge Separation in Photoelectrochemical Water Reduction. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 29173-29180.	4.0	7
35	Reaction pathways on N-substituted carbon catalysts during the electrochemical reduction of nitrate to ammonia. <i>Catalysis Science and Technology</i> , 2022, 12, 3582-3593.	2.1	6
36	Lanthanum and copper ions recovery from nickel-metal hydride cells leaching solutions by the oxide adsorbent Pyrolox®. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 103003.	3.3	4

#	ARTICLE	IF	CITATIONS
37	Valorisation of used lithium-ion batteries into nanostructured catalysts for green hydrogen from boranes. <i>Materials Advances</i> , 2020, 1, 2279-2285.	2.6	4
38	“Artificial Wood” Lignocellulosic Membranes: Influence of Kraft Lignin on the Properties and Gas Transport in Tunicate-Based Nanocellulose Composites. <i>Membranes</i> , 2021, 11, 204.	1.4	2