

# Tetyana M Budnyak

## List of Publications by Year in descending order

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Version: 2024-02-01

38  
papers

1,340  
citations

331259

21  
h-index

344852

36  
g-index

46  
all docs

46  
docs citations

46  
times ranked

1587  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | 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        |
| 2  | 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         |
| 3  | Sustainable Li-ion Batteries: Chemistry and Recycling. <i>Advanced Energy Materials</i> , 2021, 11, 2003456.   | 10.2 | 157       |
| 4  | 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        |
| 5  | 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        |
| 6  | Graphitic nitrogen in carbon catalysts is important for the reduction of nitrite as revealed by naturally abundant <sup>15</sup> N NMR spectroscopy. <i>Dalton Transactions</i> , 2021, 50, 6857-6866.   | 1.6  | 8         |
| 7  | “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         |
| 8  | Combining Electrocatalysts and Biobased Adsorbents for Sustainable Denitrification. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 3658-3667.   | 3.2  | 9         |
| 9  | Biocoatings and additives as promising candidates for ultralow friction systems. <i>Green Chemistry Letters and Reviews</i> , 2021, 14, 358-381.   | 2.1  | 8         |
| 10 | 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        |
| 11 | LignoPhot: Conversion of hydrolysis lignin into the photoactive hybrid lignin/Bi <sub>4</sub> O <sub>5</sub> Br <sub>2</sub> /BiOBr composite for simultaneous dyes oxidation and Co <sup>2+</sup> and Ni <sup>2+</sup> recycling. <i>Chemosphere</i> , 2021, 279, 130538. | 4.2  | 21        |
| 12 | Nanostructured core-shell metal borides oxides as highly efficient electrocatalysts for photoelectrochemical water oxidation. <i>Nanoscale</i> , 2020, 12, 3121-3128.  | 2.8  | 29        |
| 13 | Exploring the Origins of Improved Photocurrent by Acidic Treatment for Quaternary Tantalum-Based Oxynitride Photoanodes on the Example of CaTa <sub>2</sub> N. <i>Journal of Physical Chemistry C</i> , 2020, 124, 152-160.  | 1.5  | 28        |
| 14 | 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        |
| 15 | Glycine-functionalized silica as sorbent for cobalt(II) and nickel(II) recovery. <i>Applied Surface Science</i> , 2020, 530, 147299.   | 3.1  | 22        |
| 16 | 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         |
| 17 | <i>CelluPhot</i> : Hybrid Cellulose-Bismuth Oxybromide Membrane for Pollutant Removal. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 42891-42901.  | 4.0  | 29        |
| 18 | NiO/Poly(4-alkylthiazole) Hybrid Interface for Promoting Spatial Charge Separation in Photoelectrochemical Water Reduction. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 29173-29180.   | 4.0  | 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. <i>Journal of Physical Chemistry C</i> , 2020, 124, 15312-15323. | 1.5 | 25        |
| 20 | 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        |
| 21 | Lignin-Inorganic Interfaces: Chemistry and Applications from Adsorbents to Catalysts and Energy Storage Materials. <i>ChemSusChem</i> , 2020, 13, 4344-4355.  | 3.6 | 68        |
| 22 | Bile acids adsorption by chitoan-fumed silica enterosorbent. <i>Colloids and Interface Science Communications</i> , 2019, 32, 100194.   | 2.0 | 18        |
| 23 | 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         |
| 24 | 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        |
| 25 | 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       |
| 26 | 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 &amp; Interfaces</i> , 2018, 10, 6681-6693.                   | 4.0 | 68        |
| 27 | Chitosan-Silica Hybrid Composites for Removal of Sulfonated Azo Dyes from Aqueous Solutions. <i>Langmuir</i> , 2018, 34, 2258-2273.   | 1.6 | 79        |
| 28 | Peculiarities of Synthesis and Properties of Lignin-Silica Nanocomposites Prepared by Sol-Gel Method. <i>Nanomaterials</i> , 2018, 8, 950.  | 1.9 | 32        |
| 29 | Methylene Blue dye sorption by hybrid materials from technical lignins. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 4997-5007.  | 3.3 | 81        |
| 30 | Walnut shells as a potential low-cost lignocellulosic sorbent for dyes and metal ions. <i>Cellulose</i> , 2018, 25, 4729-4742.  | 2.4 | 28        |
| 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 | Metal Ions Removal Using Nano Oxide Pyrolox® Material. <i>Nanoscale Research Letters</i> , 2017, 12, 95.  | 3.1 | 30        |
| 33 | Natural Minerals Coated by Biopolymer Chitosan: Synthesis, Physicochemical, and Adsorption Properties. <i>Nanoscale Research Letters</i> , 2016, 11, 492.   | 3.1 | 24        |
| 34 | Silica with immobilized phosphinic acid-derivative for uranium extraction. <i>Journal of Hazardous Materials</i> , 2016, 314, 326-340.  | 6.5 | 79        |
| 35 | 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        |
| 36 | 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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|----|--|-----|-----------|
| 37 | Synthesis and adsorption properties of chitosan-silica nanocomposite prepared by sol-gel method. <i>Nanoscale Research Letters</i> , 2015, 10, 87. | 3.1 | 143       |
| 38 | Chitosan Immobilized on Silica Surface for Wastewater Treatment. <i>Medziagotyra</i> , 2014, 20, .   | 0.1 | 18        |