Tatiana G Levitskaia

List of Publications by Year
in descending order

39	657	566801 15	642321 23
papers	citations	h-index	g-index

45	45	45	646
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Iodine immobilization by materials through sorption and redox-driven processes: A literature review. Science of the Total Environment, 2020, 716, 132820.	3.9	59
2	Nanostructured MgFe and CoCr layered double hydroxides for removal and sequestration of iodine anions. Chemical Engineering Journal, 2020, 380, 122408.	6.6	47
3	Highly Selective Colorimetric and Luminescence Response of a Square-Planar Platinum(II) Terpyridyl Complex to Aqueous TcO₄^{â€“}. Inorganic Chemistry, 2015, 54, 9914-9923.	1.9	39
4	Mechanisms of neptunium redox reactions in nitric acid solutions. Inorganic Chemistry Frontiers, 2017, 4, 581-594.	3.0	39
5	Development of Online Spectroscopic pH Monitoring for Nuclear Fuel Reprocessing Plants: Weak Acid Schemes. Analytical Chemistry, 2015, 87, 5139-5147.	3.2	31
6	Nitric Acid and Water Extraction by T2EHDGA inn-Dodecane. Solvent Extraction and Ion Exchange, 2017, 35, 586-603.	0.8	31
7	An Advanced TALSPEAK Concept for Separating Minor Actinides. Part 1. Process Optimization and Flowsheet Development. Solvent Extraction and Ion Exchange, 2017, 35, 377-395.	0.8	26
8	Comparative analysis of ZVI materials for reductive separation of 99Tc(VII) from aqueous waste streams. Journal of Hazardous Materials, 2019, 380, 120836.	6.5	25
9	Inorganic tin aluminophosphate nanocomposite for reductive separation of pertechnetate. Environmental Science: Nano, 2016, 3, 1003-1013.	2.2	24
10	RedOx-controlled sorption of iodine anions by hydrotalcite composites. RSC Advances, 2016, 6, 76042-76055.	1.7	23
11	Extraction Behavior of Ln(III) Ions by T2EHDGA/n-Dodecane from Nitric Acid and Sodium Nitrate Solutions. Solvent Extraction and Ion Exchange, 2018, 36, 331-346.	0.8	21
12	Aqueous Binary Lanthanide(III) Nitrate Ln(NO₃)₃ Electrolytes Revisited: Extended Pitzer and Bromley Treatments. Journal of Chemical & Engineering Data, 2015, 60, 2974-2988.	1.0	20
13	Technetium immobilization by materials through sorption and redox-driven processes: A literature review. Science of the Total Environment, 2020, 716, 132849.	3.9	19
14	Hybrid Sorbents for ¹²⁹I Capture from Contaminated Groundwater. ACS Applied Materials & Interfaces, 2020, 12, 26113-26126.	4.0	19
15	Evolution of Acid-Dependent Am³⁺ and Eu³⁺ Organic Coordination Environment: Effects on the Extraction Efficiency. Inorganic Chemistry, 2020, 59, 4453-4467.	1.9	19
16	Spectroelectrochemistry of EuCl₃ in Four Molten Salt Eutectics; 3â€…LiClâˆ’NaCl, 3â€…LiClâˆ’2â€…KCl, LiClâˆ’RbCl, and 3â€…LiClâˆ’2â€…CsCl; at 873â€…K. Electroanalysis, 2016, 28, 2158-2165.	1.5	16
17	Evaluation of materials for iodine and technetium immobilization through sorption and redox-driven processes. Science of the Total Environment, 2020, 716, 136167.	3.9	16
18	Surprising formation of quasi-stable Tc(<scp>vi</scp>) in high ionic strength alkaline media. Inorganic Chemistry Frontiers, 2018, 5, 2081-2091.	3.0	15

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19	Identification and Quantification of Technetium Species in Hanford Waste Tank AN-102. Analytical Chemistry, 2020, 92, 13961-13970.	3.2	14
20	Overcoming Oxidation State-Dependent Spectral Interferences: Online Monitoring of U(VI) Reduction to U(IV) via Raman and UVâ€“vis Spectroscopy. Industrial & Engineering Chemistry Research, 2020, 59, 8894-8901.	1.8	13
21	Simultaneous removal of cesium and iodate using prussian blue functionalized CoCr layered double hydroxide (PB-LDH). Journal of Environmental Chemical Engineering, 2022, 10, 107477.	3.3	12
22	Impact of zero valent iron aging on reductive removal of technetium-99. Journal of Environmental Chemical Engineering, 2020, 8, 103767.	3.3	11
23	Theoretical Modeling of ⁹⁹Tc NMR Chemical Shifts. Inorganic Chemistry, 2016, 55, 8341-8347.	1.9	10
24	Spectroscopic Characterization of Aqua [fac-Tc(CO)₃]⁺ Complexes at High Ionic Strength. Inorganic Chemistry, 2018, 57, 6903-6912.	1.9	10
25	Effect of HEH[EHP] impurities on the ALSEP solvent extraction process. Solvent Extraction and Ion Exchange, 2018, 36, 22-40.	0.8	9
26	Removal of iodine (Iâ¯ and IO3â¯) from aqueous solutions using CoAl and NiAl layered double hydroxides. Chemical Engineering Journal, 2022, 430, 132788.	6.6	9
27	The abiotic reductive removal and subsequent incorporation of Tc(<scp>iv</scp>) into iron oxides: a frontier review. Environmental Science: Nano, 2019, 6, 3492-3500.	2.2	8
28	Characterization of spent Purolite A530E resin with implications for long-term radioactive contaminant removal. Journal of Environmental Chemical Engineering, 2020, 8, 104155.	3.3	8
29	Spontaneous redox continuum reveals sequestered technetium clusters and retarded mineral transformation of iron. Communications Chemistry, 2020, 3, .	2.0	8
30	Elemental characterization of crystalline silicotitanate following Hanford tank waste processing. Separation Science and Technology, 2021, 56, 1457-1465.	1.3	8
31	Mechanisms of Plutonium Redox Reactions in Nitric Acid Solutions. Inorganic Chemistry, 2020, 59, 6826-6838.	1.9	7
32	Redox and volatility of Tc(CO)3+ compounds in waste glass melting. Journal of Nuclear Materials, 2019, 515, 199-205.	1.3	6
33	A Review of Bismuth(III)-Based Materials for Remediation of Contaminated Sites. ACS Earth and Space Chemistry, 2022, 6, 883-908.	1.2	6
34	InorganicBaâ€“Snnanocomposite materials for sulfate sequestration from complex aqueous solutions. Environmental Science: Nano, 2018, 5, 890-903.	2.2	5
35	Time dependent zero valent iron oxidation and the reductive removal of pertechnetate at variable pH. Journal of Hazardous Materials, 2022, 424, 127400.	6.5	5
36	Simultaneous immobilization of aqueous co-contaminants using a bismuth layered material. Journal of Environmental Radioactivity, 2021, 237, 106711.	0.9	5

#	Article	IF	Citations
37	Elemental iron: reduction of pertechnetate in the presence of silica and periodicity of precipitated nano-structures. Environmental Science: Nano, 2021, 8, 97-109.	2.2	2
38	Kinetics and mechanism of rhenium-ethylenediaminetetraacetic acid (Re(IV)-EDTA) complex degradation; For 99Tc-EDTA degradation in the natural environment. Environmental Technology and Innovation, 2022, 27, 102492.	3.0	0
39	Removable coatings: Thermal stability and decontamination of steel surfaces from 241Am. Chemosphere, 2022, 301, 134680.	4.2	0