

# JÃ¡n HÃ¡-veÃ¡

## List of Publications by Year in descending order

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55  
papers

656  
citations

623734

14  
h-index

610901

24  
g-index

57  
all docs

57  
docs citations

57  
times ranked

616  
citing authors

#	ARTICLE	IF	CITATIONS
1	Research progress in the electrochemical synthesis of ferrate(VI). <i>Electrochimica Acta</i> , 2009, 54, 2673-2683.	5.2	129
2	Zerovalent iron and iron(VI): Effective means for the removal of psychoactive pharmaceuticals and illicit drugs from wastewaters. <i>Science of the Total Environment</i> , 2016, 539, 420-426.	8.0	40
3	Electrical conductivity of low-melting electrolytes for aluminium smelting. <i>Electrochimica Acta</i> , 2004, 49, 5111-5114.	5.2	37
4	Electrochemical formation of ferrate(VI) in a molten NaOH/KOH system. <i>Electrochemistry Communications</i> , 2006, 8, 1737-1740.	4.7	35
5	3D printed polyvinyl alcohol ferrate(VI) capsules: Effective means for the removal of pharmaceuticals and illicit drugs from wastewater. <i>Chemical Engineering Journal</i> , 2018, 349, 269-275.	12.7	34
6	Dominant psychoactive drugs in the Central European region: A wastewater study. <i>Forensic Science International</i> , 2016, 267, 42-51.	2.2	28
7	Transport numbers in the molten system Na/K-AlF <sub>3</sub> -Al <sub>2</sub> O <sub>3</sub> . <i>Ionics</i> , 2013, 19, 315-319.	2.4	22
8	The cyclic voltammetric study of ferrate(VI) formation in a molten Na/K hydroxide mixture. <i>Electrochimica Acta</i> , 2008, 54, 203-208.	5.2	21
9	Biochar – An efficient sorption material for the removal of pharmaceutically active compounds, DNA and RNA fragments from wastewater. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105746.	6.7	20
10	Voltammetry of hypoxic cells radiosensitizer etanidazole radical anion in water. <i>Bioelectrochemistry</i> , 2010, 78, 118-123.	4.6	18
11	Electrochemical characterization of multicomponent sodium cryolite electrolytes with high content of aluminium fluoride. <i>Electrochimica Acta</i> , 2018, 265, 474-479.	5.2	18
12	Comparison of Ferrate(VI) Synthesis in Eutectic NaOH/KOH Melts and in Aqueous Solutions. <i>Journal of the Electrochemical Society</i> , 2008, 155, E113.	2.9	16
13	Hospital wastewaters treatment: Fenton reaction vs. BDDE vs. ferrate(VI). <i>Environmental Science and Pollution Research</i> , 2019, 26, 31812-31821.	5.3	16
14	Low-Melting Electrolyte for Aluminum Smelting. <i>Journal of Chemical &amp; Engineering Data</i> , 2004, 49, 1414-1417.	1.9	14
15	Occurrence of pharmaceuticals, illicit drugs, and resistant types of bacteria in hospital effluent and their effective degradation by boron-doped diamond electrodes. <i>Monatshefte für Chemie</i> , 2016, 147, 97-103.	1.8	14
16	Effect of ferrate on green algae removal. <i>Environmental Science and Pollution Research</i> , 2017, 24, 21894-21901.	5.3	13
17	Impedance study of hypoxic cells radiosensitizer etanidazole radical anion in water. <i>Collection of Czechoslovak Chemical Communications</i> , 2009, 74, 1571-1581.	1.0	12
18	Electrolytic ferrate preparation in various hydroxide molten media. <i>Journal of Applied Electrochemistry</i> , 2015, 45, 1035-1042.	2.9	11

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19	Electrical conductivity of the molten cryolite-based ternary mixtures Na <sub>3</sub> AlF <sub>6</sub> -Al <sub>2</sub> O <sub>3</sub> -CaF <sub>2</sub> and Na <sub>3</sub> AlF <sub>6</sub> -Al <sub>2</sub> O <sub>3</sub> -MgF <sub>2</sub> . <i>Electrochimica Acta</i> , 1993, 38, 2165-2169.	5.2	10
20	The influence of selected nanomaterials on microorganisms. <i>Monatshefte für Chemie</i> , 2017, 148, 525-530.	1.8	10
21	Electrical Conductivity of Low-Temperature Cryolite Electrolytes with High Addition of Aluminum Fluoride. <i>Journal of the Electrochemical Society</i> , 2017, 164, E265-E269.	2.9	10
22	Effervescent ferrate(VI)-based tablets as an effective means for removal SARS-CoV-2 RNA, pharmaceuticals and resistant bacteria from wastewater. <i>Journal of Water Process Engineering</i> , 2021, 43, 102223.	5.6	10
23	On the Mechanism of Electrochemical Transpassive Dissolution of Fe-Based Anodes in Binary Hydroxide Media. <i>Journal of the Electrochemical Society</i> , 2014, 161, C62-C68.	2.9	8
24	Advanced technology for Al-Zr alloy synthesis: Electrochemical investigation of suitable low-melting electrolytes. <i>Journal of Alloys and Compounds</i> , 2018, 738, 151-157.	5.5	8
25	Electrical Conductivity of Low-Temperature Potassium Cryolite Electrolytes Suitable for Innovation of Aluminum Preparation. <i>Journal of the Electrochemical Society</i> , 2018, 165, E274-E278.	2.9	8
26	Voltammetric and impedance study of the influence of the anode composition on the electrochemical ferrate(VI) production in molten NaOH. <i>Electrochimica Acta</i> , 2013, 110, 581-586.	5.2	7
27	Determination of illicit drugs and their metabolites contamination on banknotes. <i>Monatshefte für Chemie</i> , 2016, 147, 39-43.	1.8	7
28	Electrochemical and AFM study of the interaction of recombinant human cathelicidin LL-37 with various supported bilayer lipid membranes. <i>Journal of Electroanalytical Chemistry</i> , 2018, 821, 40-46.	3.8	7
29	Electrical conductivity of molten fluoride-oxide melts with high addition of aluminium fluoride. <i>Acta Chimica Slovaca</i> , 2016, 9, 141-145.	0.8	7
30	Preparation of magnesium hydroxide from nitrate aqueous solution. <i>Chemical Papers</i> , 2011, 65, .	2.2	6
31	Surface characterisation and wettability of titanium diboride by aluminium at low temperature. <i>Advances in Applied Ceramics</i> , 2020, 119, 22-28.	1.1	6
32	Electrostatic Interaction of Negatively Charged Core-Shell Nanoparticles with Antitumoral Cationic Platinum-Based Complexes. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 3289-3294.	2.0	5
33	Removal of cyanobacteria and cyanotoxins by ferrate from polluted lake water. <i>Environmental Science and Pollution Research</i> , 2021, 28, 27084-27094.	5.3	5
34	Title is missing!. <i>Journal of Applied Electrochemistry</i> , 2002, 32, 305-310.	2.9	4
35	Electrochemical impedance and conductivity measurements in a heterogeneous Fe powder particle-electrolyte system with or without electrochemical reaction. <i>Journal of Applied Electrochemistry</i> , 2007, 37, 737-746.	2.9	4
36	Electrochemical behaviour of the LiF-(CaF <sub>2</sub> )-La <sub>2</sub> O <sub>3</sub> system. <i>Chemical Papers</i> , 2008, 62, .	2.2	4

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37	Metronidazole radical anion formation studied by means of electrochemical impedance spectroscopy. Collection of Czechoslovak Chemical Communications, 2011, 76, 1607-1617.	1.0	3
38	Electrochemical characterization of pyrophosphate-based catalysts for the oxidation of furfural in aqueous phase. Journal of Electroanalytical Chemistry, 2018, 821, 126-130.	3.8	3
39	Measurement of anode potentials at high current densities by the current interruption method for metals used in aviation technology. Journal of Applied Electrochemistry, 1993, 23, 1263-1267.	2.9	2
40	Measurement of anode potentials at high current densities in NaNO <sub>3</sub> and NaClO <sub>3</sub> media by the current interruption method for metals used in aviation technology. Journal of Applied Electrochemistry, 1994, 24, 798-802.	2.9	2
41	Study of Anodic Oxide Layers by Electrochemical Impedance Spectroscopy (EIS). Solid State Phenomena, 2003, 90-91, 455-462.	0.3	2
42	Correlation of the first reduction potential of selected radiosensitizers determined by cyclic voltammetry with theoretical calculations. Collection of Czechoslovak Chemical Communications, 2011, 76, 937-946.	1.0	2
43	Electrochemical Characterization of Low-Temperature Molten Mixture Systems Suitable as an Innovation in Aluminum Technology. Journal of the Electrochemical Society, 2018, 165, E793-E797.	2.9	2
44	Al-Zr alloys synthesis: characterization of suitable multicomponent low-temperature melts. Journal of Materials Research and Technology, 2020, 9, 594-600.	5.8	2
45	Carbon family nanomaterials – new applications and technologies. Acta Chimica Slovaca, 2020, 13, 77-87.	0.8	2
46	Ferrate (VI), Fenton Reaction and Its Modification: An Effective Method of Removing SARS-CoV-2 RNA from Hospital Wastewater. Pathogens, 2022, 11, 450.	2.8	2
47	Electrochemical Impedance Measurements on a Stirred Heterogeneous System of Conductive/Nonconductive Powder Particles Electrolyte. Journal of the Electrochemical Society, 2008, 155, D542.	2.9	1
48	Electrochemical determination of basic biochemical properties of enzyme enterokinase. Monatshefte für Chemie, 2015, 146, 755-759.	1.8	1
49	Native and denatured enzyme enterokinase determined by electrochemical methods. Monatshefte für Chemie, 2017, 148, 549-553.	1.8	1
50	Degradation of anti-inflammatory drug diclofenac in sewage water. Acta Chimica Slovaca, 2017, 10, 1-5.	0.8	1
51	Electrical conductivity of low-temperature sodium-potassium cryolite melts. Acta Chimica Slovaca, 2019, 12, 22-26.	0.8	1
52	Anomalous Coating of Iron Microparticles by Ni-Co Layers in the 3D Stirred Heterogeneous System: Impedance Study. Journal of the Electrochemical Society, 2009, 156, D462.	2.9	0
53	Effect of Humidity on Selective Surface of Solar Absorber Plates. Materials Science Forum, 0, 811, 11-19.	0.3	0
54	Electrochemical study of the stability of ferrates(VI) in low temperature molten hydroxide. Acta Chimica Slovaca, 2013, 6, 202-205.	0.8	0

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55	Toluene oxidation: UV irradiation vs. ferrates. Acta Chimica Slovaca, 2020, 13, 10-13.	0.8	0