

# Valerii Kotok

## List of Publications by Year in descending order

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Version: 2024-02-01

87  
papers

622  
citations

566801

15  
h-index

676716

22  
g-index

88  
all docs

88  
docs citations

88  
times ranked

167  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nickel hydroxide obtained by high-temperature two-step synthesis as an effective material for supercapacitor applications. <i>Journal of Solid State Electrochemistry</i> , 2017, 21, 683-691.	1.2	42
2	Definition of factors influencing on Ni(OH) <sub>2</sub> electrochemical characteristics for supercapacitors. <i>Eastern-European Journal of Enterprise Technologies</i> , 2016, 5, 17-22.	0.3	25
3	The electrochemical cathodic template synthesis of nickel hydroxide thin films for electrochromic devices: role of temperature. <i>Eastern-European Journal of Enterprise Technologies</i> , 2017, 2, 28-34.	0.3	24
4	Soft Electrochemical Etching of FTO-Coated Glass for Use in Ni(OH) <sub>2</sub> -Based Electrochromic Devices. <i>ECS Journal of Solid State Science and Technology</i> , 2017, 6, P772-P777.	0.9	23
5	Research of the mechanism of formation and properties of tripolyphosphate coating on the steel basis. <i>Eastern-European Journal of Enterprise Technologies</i> , 2016, 5, 33-39.	0.3	23
6	Study of the influence of the template concentration under homogeneous precepitation on the properties of Ni(OH) <sub>2</sub> for supercapacitors. <i>Eastern-European Journal of Enterprise Technologies</i> , 2017, 4, 17-22.	0.3	23
7	The properties investigation of the faradaic supercapacitor electrode formed on foamed nickel substrate with polyvinyl alcohol using. <i>Eastern-European Journal of Enterprise Technologies</i> , 2017, 4, 31-37.	0.3	23
8	Optimization of nickel hydroxide electrode of the hybrid supercapacitor. <i>Eastern-European Journal of Enterprise Technologies</i> , 2017, 1, 4-9.	0.3	23
9	Influence of temperature on the characteristics of Ni(II), Ti(IV) layered double hydroxides synthesised by different methods. <i>Eastern-European Journal of Enterprise Technologies</i> , 2017, 1, 16-22.	0.3	23
10	Comparison of oxygen evolution parameters on different types of nickel hydroxide. <i>Eastern-European Journal of Enterprise Technologies</i> , 2017, 5, 12-19.	0.3	21
11	Activation of the nickel foam as a current collector for application in supercapacitors. <i>Eastern-European Journal of Enterprise Technologies</i> , 2018, 3, 56-62.	0.3	19
12	Influence of ultrasound and template on the properties of nickel hydroxide as an active substance of supercapacitors. <i>Eastern-European Journal of Enterprise Technologies</i> , 2018, 3, 32-39.	0.3	19
13	Electrochromism of Ni(OH) <sub>2</sub> films obtained by cathode template method with addition of Al, Zn, Co ions. <i>Eastern-European Journal of Enterprise Technologies</i> , 2017, 3, 38-43.	0.3	18
14	Definition of the aging process parameters for nickel hydroxide in the alkaline medium. <i>Eastern-European Journal of Enterprise Technologies</i> , 2018, 2, 54-60.	0.3	18
15	Investigation of Ni <sup>2+</sup> Al hydroxide with silver addition as an active substance of alkaline batteries. <i>Eastern-European Journal of Enterprise Technologies</i> , 2018, 3, 6-11.	0.3	18
16	Non-Metallic Films Electroplating on the Low-Conductivity Substrates: The Conscious Selection of Conditions Using Ni(OH) <sub>2</sub> Deposition as an Example. <i>Journal of the Electrochemical Society</i> , 2019, 166, D395-D408.	1.3	15
17	Al <sup>3+</sup> Additive in the Nickel Hydroxide Obtained by High-Temperature Two-Step Synthesis: Activator or Poisoner for Chemical Power Source Application?. <i>Journal of the Electrochemical Society</i> , 2020, 167, 100530.	1.3	15
18	The study of properties of composite adsorptive materials "silica gel" crystalline hydrate" for heat storage devices. <i>Eastern-European Journal of Enterprise Technologies</i> , 2018, 1, 52-58.	0.3	15

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19	A study of the effect of tungstate ions on the electrochromic properties of Ni(OH) <sub>2</sub> films. Eastern-European Journal of Enterprise Technologies, 2018, 5, 18-24.	0.3	15
20	Synthesis and characterisation of dye-intercalated nickel-aluminium layered double hydroxide as a cosmetic pigment. Eastern-European Journal of Enterprise Technologies, 2017, 5, 27-33.	0.3	15
21	Definition of effectiveness of Ni-Ni(OH) <sub>2</sub> application in the alkaline secondary cells and hybrid supercapacitors. Eastern-European Journal of Enterprise Technologies, 2017, 5, 17-22.	0.3	14
22	A study of multilayered electrochromic platings based on nickel and cobalt hydroxides. Eastern-European Journal of Enterprise Technologies, 2018, 1, 29-35.	0.3	14
23	Comparative investigation of electrochemically synthesized (Ni <sup>1+</sup> +Ni <sup>2+</sup> ) layered nickel hydroxide with mixture of Ni <sup>1+</sup> -Ni(OH) <sub>2</sub> and Ni <sup>2+</sup> -Ni(OH) <sub>2</sub> . Eastern-European Journal of Enterprise Technologies, 2018, 2, 16-22.	0.3	14
24	Influence of the carbonate ion on characteristics of electrochemically synthesized layered (Ni <sup>1+</sup> +Ni <sup>2+</sup> ) nickel hydroxide. Eastern-European Journal of Enterprise Technologies, 2019, 1, 40-46.	0.3	13
25	Obtaining of Ni-Al layered double hydroxide by slit diaphragm electrolyzer. Eastern-European Journal of Enterprise Technologies, 2017, 2, 11-17.	0.3	13
26	Selective anodic treatment of W(WC)-based superalloy scrap. Eastern-European Journal of Enterprise Technologies, 2017, 1, 53-58.	0.3	12
27	A study of the effect of cycling modes on the electrochromic properties of Ni(OH) <sub>2</sub> films. Eastern-European Journal of Enterprise Technologies, 2018, 6, 62-69.	0.3	11
28	The study of activation impact during formation and testing of Ni(OH) <sub>2</sub> electrochromic films in the presence of Al <sup>3+</sup> and WO <sub>4</sub> <sup>2-</sup> ions. Eastern-European Journal of Enterprise Technologies, 2019, 6, 6-13.	0.3	9
29	Anionic carbonate activation of layered (Ni <sup>1+</sup> +Ni <sup>2+</sup> ) nickel hydroxide. Eastern-European Journal of Enterprise Technologies, 2019, 3, 44-52.	0.3	7
30	Investigation of characteristics of double Ni-Co and ternary Ni-Co-Al layered hydroxides for supercapacitor application. Eastern-European Journal of Enterprise Technologies, 2019, 2, 58-66.	0.3	6
31	A study of the increased temperature influence on the electrochromic and electrochemical characteristics of Ni(OH) <sub>2</sub> -PVA composite films. Eastern-European Journal of Enterprise Technologies, 2020, 3, 6-12.	0.3	6
32	Synthesis of Ni(OH) <sub>2</sub> by template homogeneous precipitation for application in the binder-free electrode of supercapacitor. Eastern-European Journal of Enterprise Technologies, 2018, 4, 29-35.	0.3	5
33	“The popcorn effect” obtaining of the highly active ultrafine nickel hydroxide by microwave treatment of wet precipitate. Eastern-European Journal of Enterprise Technologies, 2018, 5, 12-20.	0.3	5
34	A study of the influence of additives on the process of formation and corrosive properties of tripolyphosphate coatings on steel. Eastern-European Journal of Enterprise Technologies, 2017, 5, 45-51.	0.3	5
35	Synthesis of new immobilized N-chloro-sulfonamides and release of active chlorine from them. EUREKA, Physics and Engineering, 2021, , 3-13.	0.4	4
36	Investigation of charge and discharge regimes of nanomodified heat-accumulating materials. Eastern-European Journal of Enterprise Technologies, 2017, 3, 23-29.	0.3	4

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37	Definition of the influence of obtaining method on physical and chemical characteristics of Ni (OH) <sub>2</sub> powders. Eastern-European Journal of Enterprise Technologies, 2019, 1, 21-27.	0.3	4
38	Bifunctional indigocarmin- <i>intercalated</i> Ni-Al layered double hydroxide: investigation of characteristics for pigment and supercapacitor application. Eastern-European Journal of Enterprise Technologies, 2020, 2, 30-39.	0.3	4
39	STUDY OF THE Ni(OH) <sub>2</sub> ELECTROCHROMIC PROPERTIES OF FILMS DEPOSITED ON FTO GLASS WITH AN ADDITIONAL CONDUCTING LAYER. EUREKA, Physics and Engineering, 2020, 4, 70-77.	0.4	4
40	Investigation of the properties of Ni(OH) <sub>2</sub> electrochrome films obtained in the presence of different types of polyvinyl alcohol. Eastern-European Journal of Enterprise Technologies, 2018, 4, 42-47.	0.3	3
41	DEVELOPMENT OF A POTENTIOMETRIC SENSOR SENSITIVE TO POLYSORBATE 20. EUREKA, Physics and Engineering, 2019, 4, 3-9.	0.4	3
42	Smart-anti-corrosion pigment based on layered double hydroxide: construction and characterization. Eastern-European Journal of Enterprise Technologies, 2019, 4, 23-30.	0.3	3
43	Material selection for the mesh electrode of electrochromic device based on Ni(OH) <sub>2</sub> . Eastern-European Journal of Enterprise Technologies, 2019, 4, 54-60.	0.3	3
44	A study of the influence of polyvinyl pyrrolidone concentration in the deposition electrolyte on the properties of electrochromic Ni(OH) <sub>2</sub> films. Eastern-European Journal of Enterprise Technologies, 2020, 4, 31-37.	0.3	3
45	A study of an electrochromic device based on Ni(OH) <sub>2</sub> /PVA film with the mesh-like silver counter electrode. Eastern-European Journal of Enterprise Technologies, 2019, 5, 49-55.	0.3	3
46	A study of the possibility of conducting selective laser processing of thin composite electrochromic Ni(OH) <sub>2</sub> -PVA films. Eastern-European Journal of Enterprise Technologies, 2021, 1, 6-15.	0.3	2
47	The determination of electrolyte stability and conditions for electrochromic WO <sub>3</sub> films deposition. Technology Audit and Production Reserves, 2017, 3, 17-22.	0.1	2
48	Investigation of composition and structure of tripoliphosphate coating on low carbon steel. Eastern-European Journal of Enterprise Technologies, 2017, 2, 4-10.	0.3	2
49	Investigation of physical and chemical properties and structure of tripolyphosphate coatings on zinc plated steel. Eastern-European Journal of Enterprise Technologies, 2017, 3, 4-8.	0.3	2
50	Definition of synthesis parameters of ultrafine nickel powder by direct electrolysis for application in superalloy production. Eastern-European Journal of Enterprise Technologies, 2018, 1, 27-33.	0.3	2
51	Development of the electrochemical synthesis method of ultrafine cobalt powder for a superalloy production. Eastern-European Journal of Enterprise Technologies, 2018, 2, 41-47.	0.3	2
52	Investigation of the electrochromic properties of Ni(OH) <sub>2</sub> films on glass with ITO-Ni bilayer coating. Eastern-European Journal of Enterprise Technologies, 2018, 3, 55-61.	0.3	2
53	Optimization of the deposition conditions for Ni(OH) <sub>2</sub> films for electrochromic elements of smart windows. Eastern-European Journal of Enterprise Technologies, 2019, 2, 35-40.	0.3	2
54	A study of electrochromic Ni(OH) <sub>2</sub> films obtained in the presence of small amounts of aluminum. Eastern-European Journal of Enterprise Technologies, 2019, 3, 39-45.	0.3	2

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55	Investigation of the anodic behavior of w-based superalloy for electrochemical selective treatment. Eastern-European Journal of Enterprise Technologies, 2020, 6, 55-60.	0.3	2
56	Selection of the formation mode of a zinc mesh electrode for an electrochromic device with the possibility of energy recovery. Eastern-European Journal of Enterprise Technologies, 2020, 2, 13-20.	0.3	2
57	Improvement of continuous technology of electrochemical synthesis of nickel hydroxide by implementation of solution recycling. Eastern-European Journal of Enterprise Technologies, 2021, 1, 30-38.	0.3	1
58	Synthesis of Ni(OH) <sub>2</sub> , suitable for supercapacitor application, by the cold template homogeneous precipitation method. Eastern-European Journal of Enterprise Technologies, 2021, 2, 45-51.	0.3	1
59	Formation mechanism of nickel hydroxide in system Ni(NO <sub>3</sub> ) <sub>2</sub> •NaOH. Bulletin of the National Technical University "KhPI" Series New Solutions in Modern Technologies, 2017, .	0.1	1
60	The effect of template residual content on supercapacitive characteristics of Ni(OH) <sub>2</sub> , obtained by template homogeneous precipitation. Eastern-European Journal of Enterprise Technologies, 2019, 5, 29-37.	0.3	1
61	Study of the Mn <sup>2+</sup> ions influence in the deposition electrolyte on the electrochromic properties of obtained Ni(OH) <sub>2</sub> films. Eastern-European Journal of Enterprise Technologies, 2020, 1, 12-17.	0.3	1
62	Changes in the nickel hydroxide properties under the influence of thermal field in situ and ex situ during electrochemical synthesis. Eastern-European Journal of Enterprise Technologies, 2020, 4, 31-38.	0.3	1
63	Influence of used polyvinyl alcohol grade on the electrochromic properties of Ni(OH) <sub>2</sub> -PVA composite films. Eastern-European Journal of Enterprise Technologies, 2020, 5, 58-65.	0.3	1
64	Determination of the applicability of Zn-Al layered double hydroxide, intercalated by food dye Orange Yellow S, as a cosmetic pigment. Eastern-European Journal of Enterprise Technologies, 2020, 5, 81-89.	0.3	1
65	Definition of the role of polyvinyl alcohol during formation and in the structure of cathodic synthesized composite electrochromic nickel hydroxide layer: template or surfactant. Eastern-European Journal of Enterprise Technologies, 2022, 2, 6-14.	0.3	1
66	Development of a special cell for optical and electrochemical measurements using 3D printing and modern electronic base. Eastern-European Journal of Enterprise Technologies, 2021, 2, 6-13.	0.3	0
67	Comparative investigation of different types of nickel foam samples for application in supercapacitors and other electrochemical devices. Eastern-European Journal of Enterprise Technologies, 2021, 3, 32-38.	0.3	0
68	Definition of the influence of pulsed deposition modes on the electrochromic properties of Ni(OH) <sub>2</sub> -polyvinyl alcohol films. Eastern-European Journal of Enterprise Technologies, 2021, 3, 53-58.	0.3	0
69	Determination of the applicability of the tungsten-containing material as low-cost electrodes for reverse electrodialysis. Eastern-European Journal of Enterprise Technologies, 2021, 4, 39-46.	0.3	0
70	Determination of the effect of exposure conducted in KOH solutions at different temperatures on the properties of electrochromic Ni(OH) <sub>2</sub> -PVA films. Eastern-European Journal of Enterprise Technologies, 2021, 4, 60-66.	0.3	0
71	Synthesis of molybdate-intercalated Ni-Ti layered double hydroxide by coprecipitation at high supersaturation and characterization. Bulletin of the National Technical University "KhPI" Series New Solutions in Modern Technologies, 2016, .	0.1	0
72	The obtaining of nickel hydroxide by low temperature homogeneous precipitation method. Bulletin of the National Technical University "KhPI" Series New Solutions in Modern Technologies, 2017, .	0.1	0

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73	ELECTROCHEMICAL REDUCING OF TERBIUM AND HOLMIUM IONS IN THE SODIUM AND POTASSIUM CHLORIDES MELT WITH EQUIMOLAR COMPOSITION. EUREKA, Physics and Engineering, 2019, 5, 3-9.	0.4	0
74	DETERMINATION OF FORMATION REGIMES FOR BILAYER COBALT DYSPROSIUM INTERMETALIC SURFACE ALLOY. EUREKA, Physics and Engineering, 2019, 6, 3-8.	0.4	0
75	Synthesis of nickel hydroxide in the presence of acetate ion as a «soft» ligand for application in chemical power sources. Eastern-European Journal of Enterprise Technologies, 2019, 6, 6-12.	0.3	0
76	Investigation of characteristics of binary Ni-Co oxyhydroxides for supercapacitor application. Eastern-European Journal of Enterprise Technologies, 2020, 1, 15-23.	0.3	0
77	Optimization of the formation technology of tripolyphosphate coating on mild steel. Eastern-European Journal of Enterprise Technologies, 2021, 5, 73-78.	0.3	0
78	A study of physico-chemical characteristics of electrochromic Ni(OH) <sub>2</sub> -PVA films on fto glass with different deposition duration. Eastern-European Journal of Enterprise Technologies, 2021, 5, 39-46.	0.3	0
79	OPTIMIZATION OF RECTIFICATION PROCESS USING MOBILE CONTROL ACTION WITH ACCOUNT FOR CRITERION OF MAXIMIZING SEPARATION QUALITY. EUREKA, Physics and Engineering, 2020, , 33-40.	0.4	0
80	Determination of the dependence of the structure of Zn-Al layered double hydroxides, as a matrix for functional anions intercalation, on synthesis conditions. Eastern-European Journal of Enterprise Technologies, 2022, 1, 12-20.	0.3	0
81	Investigation of the characteristics of sulfurized electrochromic Ni(OH) <sub>2</sub> -PVA films deposited on transparent substrates. Eastern-European Journal of Enterprise Technologies, 2022, 1, 24-30.	0.3	0
82	The determination of synthesis conditions and color properties of pigments based on layered double hydroxides with Co as a guest cation. Eastern-European Journal of Enterprise Technologies, 2021, 6, 32-38.	0.3	0
83	Efficiency definition of the deposition process of electrochromic Ni(OH) <sub>2</sub> -PVA films formed on a metal substrate from concentrated solutions. Eastern-European Journal of Enterprise Technologies, 2021, 6, 27-33.	0.3	0
84	Determination of technological parameters of Zn-Al layered double hydroxides, as a matrix for functional anions intercalation, under different synthesis conditions. Eastern-European Journal of Enterprise Technologies, 2022, 2, 25-32.	0.3	0
85	Characteristics investigation of composite electrochromic films based on Ni(OH) <sub>2</sub> , polyvinyl alcohol, and polyvinylpyrrolidone. Eastern-European Journal of Enterprise Technologies, 2022, 3, 58-65.	0.3	0
86	Investigation of the characteristics of Zn-Al layered double hydroxides, intercalated with natural dyes from spices, as a cosmetic pigments. Eastern-European Journal of Enterprise Technologies, 2022, 3, 52-59.	0.3	0
87	(Digital Presentation) Capacitive Properties of Electrodes Based on Fto Covered By Silver Nanowires. ECS Meeting Abstracts, 2022, MA2022-01, 2477-2477.	0.0	0