

Irina Lukiyanchuk

List of Publications by Year in descending order

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112
papers

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citations

430442

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all docs

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112
times ranked

462
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface morphology, composition and thermal behavior of tungsten-containing anodic spark coatings on aluminium alloy. <i>Thin Solid Films</i> , 2004, 446, 54-60.	0.8	64
2	Plasma electrolytic oxide layers as promising systems for catalysis. <i>Surface and Coatings Technology</i> , 2016, 307, 1183-1193.	2.2	43
3	Aluminum- and titanium-supported plasma electrolytic multicomponent coatings with magnetic, catalytic, biocide or biocompatible properties. <i>Surface and Coatings Technology</i> , 2016, 307, 1219-1235.	2.2	41
4	Magnetic properties of plasma electrolytic iron-containing oxide coatings on aluminum. <i>Doklady Physical Chemistry</i> , 2009, 428, 189-192.	0.2	33
5	Highly Efficient Nanoarchitected Ni ₅ TiO ₇ Catalyst for Biomass Gasification. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 4062-4066.	4.0	29
6	The effect of the conditions of formation on ferromagnetic properties of iron-containing oxide coatings on titanium. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2012, 48, 543-552.	0.3	28
7	The nanostructural catalytic composition CuMoO ₄ /TiO ₂ + SiO ₂ /Ti for combustion of diesel soot. <i>Surface and Coatings Technology</i> , 2013, 231, 144-148.	2.2	26
8	Comparative analysis of the composition, structure, and catalytic activity of the NiO-CuO-TiO ₂ on Titanium and NiO-CuO-Al ₂ O ₃ on aluminum composites. <i>Kinetics and Catalysis</i> , 2010, 51, 266-272.	0.3	25
9	Magnetoactive oxide layers formed on titanium by plasma-electrolytic technique. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2010, 46, 566-572.	0.3	24
10	Titanium-supported Ce-, Zr-containing oxide coatings modified by platinum or nickel and copper oxides and their catalytic activity in CO oxidation. <i>Surface and Coatings Technology</i> , 2011, 206, 417-424.	2.2	24
11	Plasma electrolytic oxide coatings on valve metals and their activity in CO oxidation. <i>Applied Surface Science</i> , 2014, 315, 481-489.	3.1	24
12	Tungsten oxide films on aluminum and titanium. <i>Inorganic Materials</i> , 2007, 43, 264-267.	0.2	20
13	Magnetic properties of plasma-electrolytic iron-containing oxide coatings on aluminum alloy. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2013, 49, 309-318.	0.3	20
14	Calcium-containing biocompatible oxide-phosphate coatings on titanium. <i>Russian Journal of Applied Chemistry</i> , 2010, 83, 671-679.	0.1	19
15	Composition, surface structure, and thermal behavior of ZrO ₂ + TiO ₂ /Ti and ZrO ₂ + CeO _x + TiO ₂ composites formed by plasma-electrolytic oxidation. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2012, 48, 455-461.	0.3	19
16	Anodic-Spark Oxidation of Aluminum Alloy in Tungstate Electrolytes. <i>Russian Journal of Applied Chemistry</i> , 2002, 75, 573-578.	0.1	18
17	Catalytic properties of aluminum/nickel-, copper-containing oxide film compositions. <i>Kinetics and Catalysis</i> , 2008, 49, 439-445.	0.3	18
18	Thermal behavior of Ni- and Cu-containing plasma electrolytic oxide coatings on titanium. <i>Applied Surface Science</i> , 2012, 258, 8667-8672.	3.1	18

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19	Composites with transition metal oxides on aluminum and titanium and their activity in CO oxidation. <i>Surface and Coatings Technology</i> , 2013, 231, 433-438.	2.2	18
20	The effect of nanocrystallites in the pores of PEO coatings on their magnetic properties. <i>Surface and Coatings Technology</i> , 2015, 269, 23-29.	2.2	18
21	W-containing oxide layers obtained on aluminum and titanium by PEO as catalysts in thiophene oxidation. <i>Applied Surface Science</i> , 2017, 422, 1007-1014.	3.1	18
22	Ni- and Cu-containing oxide layers on aluminum: Formation, composition, and catalytic properties. <i>Doklady Physical Chemistry</i> , 2007, 415, 183-185.	0.2	17
23	Ce-, Zr-containing oxide layers formed by plasma electrolytic oxidation on titanium as catalysts for oxidative desulfurization. <i>Surface and Coatings Technology</i> , 2019, 362, 132-140.	2.2	16
24	Effect of Nanoparticle Coating on fibers made of aluminum alloy, titanium, and FeCrAl alloy on surface morphology and activity in CO oxidation. <i>Applied Surface Science</i> , 2018, 436, 1-10.	3.1	15
25	Phase Composition of Coatings Formed on Titanium in Borate Electrolyte by Microarc Oxidation. <i>Russian Journal of Applied Chemistry</i> , 2002, 75, 569-572.	0.1	14
26	Magnetic properties of iron-containing coatings formed by plasma-electrolytic oxidation. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2010, 74, 1404-1406.	0.1	14
27	Title is missing!. <i>Protection of Metals</i> , 2002, 38, 191-195.	0.2	13
28	Structure and magnetic characteristics of iron-modified titania layers on titanium. <i>Journal of Alloys and Compounds</i> , 2015, 618, 623-628.	2.8	13
29	Anodic-Spark Deposition of P- and W(Mo)-Containing Coatings onto Aluminum and Titanium Alloys. <i>Russian Journal of Applied Chemistry</i> , 2002, 75, 1082-1086.	0.1	12
30	IR and Py-GC/MS investigation of composite PTFE/PEO coatings on aluminum. <i>Materials Chemistry and Physics</i> , 2019, 221, 436-446.	2.0	12
31	Plasma electrolytic synthesis and characterization of oxide coatings with MWO ₄ (M=Co, Ni, Cu) as photo-Fenton heterogeneous catalysts. <i>Surface and Coatings Technology</i> , 2021, 424, 127640.	2.2	12
32	Ta-containing coatings formed on titanium and stainless steel by plasma electrolytic oxidation and/or extraction pyrolysis. <i>Surface and Coatings Technology</i> , 2014, 258, 1232-1238.	2.2	11
33	The structural catalyst CuMoO ₄ /TiO ₂ /TiO ₂ + SiO ₂ /Ti for diesel soot combustion. <i>Surface and Coatings Technology</i> , 2015, 261, 344-349.	2.2	11
34	Micrograins on the surface of anodic films. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2009, 45, 71-74.	0.3	10
35	Deposition, composition, and activity in CO oxidation of anodic layers with platinum on aluminum and titanium. <i>Russian Journal of Applied Chemistry</i> , 2010, 83, 680-686.	0.1	10
36	Magnetism of Fe-doped Al ₂ O ₃ and TiO ₂ layers formed on aluminum and titanium by plasma-electrolytic oxidation. <i>Journal of Alloys and Compounds</i> , 2020, 816, 152579.	2.8	10

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37	Titanium-supported W-containing PEO layers enriched with Mn or Zn in oxidative desulfurization and the zwitterionic liquid effect. <i>Surface and Coatings Technology</i> , 2020, 393, 125746.	2.2	10
38	Ti/TiO ₂ -CoWO ₄ -Co ₃ (PO ₄) ₂ composites: Plasma electrolytic synthesis, optoelectronic properties, and solar light-driven photocatalytic activity. <i>Journal of Alloys and Compounds</i> , 2021, 863, 158066.	2.8	10
39	Formation, structure, composition, and catalytic properties of Ni-, Cu-, Mn-, Fe-, and co-containing films on aluminum. <i>Russian Journal of Applied Chemistry</i> , 2009, 82, 1000-1007.	0.1	9
40	Oxide layers with ferro- and ferrimagnetic characteristics formed on aluminum via plasma electrolytic oxidation. <i>Russian Journal of Physical Chemistry A</i> , 2013, 87, 1052-1056.	0.1	9
41	Composition, structure, magnetic and luminescent properties of EuFeO ₃ /TiO ₂ /Ti composites fabricated by combination of plasma electrolytic oxidation and extraction pyrolysis. <i>Journal of Alloys and Compounds</i> , 2015, 647, 699-706.	2.8	9
42	The effect of Fe-containing colloid particles in electrolyte on the composition and magnetic characteristics of oxide layers on titanium formed using the method of plasma electrolytic oxidation. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2016, 52, 526-531.	0.3	9
43	Anodic-cathodic formation of pH-sensitive TiO ₂ -MoO _x films on titanium. <i>Journal of Electroanalytical Chemistry</i> , 2020, 873, 114388.	1.9	9
44	On the Surface Structure of Coatings Formed by Anodic Spark Method. <i>Protection of Metals</i> , 2004, 40, 352-357.	0.2	8
45	Silicate coatings on titanium, modified with transition metal oxides and their activity in CO oxidation. <i>Russian Journal of Applied Chemistry</i> , 2013, 86, 319-325.	0.1	8
46	Tantalum oxide-modified calcium phosphate coatings on titanium for biomedical applications. <i>Russian Journal of Applied Chemistry</i> , 2013, 86, 119-123.	0.1	8
47	Catalytically active cobalt-copper-oxide layers on aluminum and titanium. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2014, 50, 209-217.	0.3	8
48	An X-ray photoelectron spectroscopy study of Ni, Cu-containing coatings formed by plasma electrolytic oxidation on aluminum and titanium. <i>Journal of Structural Chemistry</i> , 2017, 58, 1129-1136.	0.3	8
49	Thermally Controlled Formation of WO ₃ Nano- and Microcrystals on the Surface of Coatings Produced on Titanium by Plasma Electrolytic Oxidation. <i>Inorganic Materials</i> , 2019, 55, 681-686.	0.2	8
50	Effect of the Composition of Oxide Layers Formed by Plasma Electrolytic Oxidation on the Mechanism of Peroxide Oxidative Desulfurization. <i>Kinetics and Catalysis</i> , 2020, 61, 283-290.	0.3	8
51	Anodic-spark layers on aluminum and titanium alloys in electrolytes with sodium phosphotungstate. <i>Russian Journal of Applied Chemistry</i> , 2004, 77, 1460-1468.	0.1	7
52	Catalytic properties of Ni-, Cu-containing oxide film/aluminum alloy composition. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2009, 45, 580-582.	0.3	7
53	The organization of the surface of multicomponent plasma-electrolytic anode layers on aluminum. <i>Russian Journal of Physical Chemistry A</i> , 2010, 84, 1059-1064.	0.1	7
54	The thermal effect on magnetic properties of iron-containing coatings formed on titanium by plasma-electrolytic oxidation. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2012, 48, 671-677.	0.3	7

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55	Silicate coatings on titanium modified by cobalt and/or copper oxides and their activity in CO oxidation. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2015, 51, 448-457.	0.3	7
56	Catalytic properties of metallic fibers fabricated by tempering of melt on a rotating heat-receiver. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2017, 53, 287-293.	0.3	7
57	Ti/TiO ₂ /NiWO ₄ +WO ₃ composites for oxidative desulfurization and denitrogenation. <i>Surface and Coatings Technology</i> , 2022, 434, 128200.	2.2	7
58	Anodic-Spark Layers Formed on Aluminum Alloy in Tungstate-Borate Electrolytes. <i>Russian Journal of Applied Chemistry</i> , 2002, 75, 1972-1978.	0.1	6
59	Pt-containing oxide layers on titanium and aluminum. <i>Inorganic Materials</i> , 2009, 45, 414-417.	0.2	6
60	Oxide layers with Pd-containing nanoparticles on titanium. <i>Applied Catalysis A: General</i> , 2014, 485, 222-229.	2.2	6
61	Oxide coatings with ferromagnetic characteristics on Al, Ti, Zr and Nb. <i>Surface and Coatings Technology</i> , 2020, 381, 125180.	2.2	6
62	Pt/SiO ₂ and Pt/TiO ₂ /Ti compositions and their catalytic properties. <i>Theoretical Foundations of Chemical Engineering</i> , 2011, 45, 496-499.	0.2	5
63	Bifunctional Fe-containing coatings formed on aluminum by plasma-electrolytic oxidation. <i>Russian Journal of Applied Chemistry</i> , 2012, 85, 1686-1690.	0.1	5
64	Catalytically active coatings of noble metals and oxides of rare-earth elements. <i>Russian Journal of Applied Chemistry</i> , 2013, 86, 727-732.	0.1	5
65	Oxide coatings modified with transition and rare-earth metals on aluminum and their activity in CO oxidation. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2014, 50, 508-515.	0.3	5
66	Growth of nanowires on the surfaces of multicomponent oxide coatings on titanium. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2014, 50, 191-194.	0.3	5
67	Coatings with calcium and strontium phosphates and tantalum oxide on titanium for biomedical applications. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2015, 51, 968-972.	0.3	5
68	Effect of the structure of the oxidized titanium surface on the particle size and properties of the deposited copper-molybdate catalyst. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2016, 52, 1024-1030.	0.3	5
69	Peculiarities of Magnetic States of Iron-Cobalt Coatings Formed on Aluminum by Plasma Electrolytic Oxidation. <i>Journal of Superconductivity and Novel Magnetism</i> , 2018, 31, 1933-1940.	0.8	5
70	Preparation and Photocatalytic Properties of Bi ₂ O ₃ /Bi ₂ SiO ₅ Heterostructures. <i>Russian Journal of Inorganic Chemistry</i> , 2021, 66, 943-949.	0.3	5
71	Fe-, Ni-containing ceramic-like PEO coatings on titanium and aluminum: Comparative analysis of the formation features, composition and ferromagnetic properties. <i>Materials Chemistry and Physics</i> , 2022, 275, 125231.	2.0	5
72	Electrolytic-plasma oxidation in borate electrolytes. <i>Protection of Metals</i> , 2006, 42, 55-59.	0.2	4

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73	Surface structure of multicomponent oxide coatings on titanium. Protection of Metals and Physical Chemistry of Surfaces, 2009, 45, 709-712.	0.3	4
74	Preparation, properties, and catalytic activity of platinum-modified plasma electrolytic oxide structures on aluminum. Russian Journal of Inorganic Chemistry, 2011, 56, 1429-1435.	0.3	4
75	Ta-containing oxide coatings on titanium for biomedical application. Russian Journal of Applied Chemistry, 2013, 86, 1340-1343.	0.1	4
76	Structures and magnetic properties of iron- and cobalt-containing oxide coatings on an aluminum alloy formed in electrolytes via plasma electrolytic oxidation. Russian Journal of Physical Chemistry A, 2014, 88, 863-869.	0.1	4
77	Catalytically active composite materials with porous aluminum oxide matrix modified by Fe^{3+} -MnO ₂ nanoparticles. Protection of Metals and Physical Chemistry of Surfaces, 2016, 52, 832-838.	0.3	4
78	Modification with Manganese of Anodic Layers Containing Tungsten Oxides. Russian Journal of Applied Chemistry, 2003, 76, 1597-1599.	0.1	3
79	Deposition of cobalt-containing films on titanium by plasma electrolytic oxidation. Russian Journal of Applied Chemistry, 2012, 85, 953-956.	0.1	3
80	Influence of Magnetostatic Interactions on Magnetization Process of Iron-Containing Coatings, Produced Using the Plasma Electrolytic Oxidation Method. Solid State Phenomena, 0, 215, 200-203.	0.3	3
81	Layers with tantalum oxides on stainless steel. Protection of Metals and Physical Chemistry of Surfaces, 2015, 51, 817-820.	0.3	3
82	Iron Distribution and Ferromagnetic Characteristics of Fe-Containing PEO Coatings on Aluminum. Protection of Metals and Physical Chemistry of Surfaces, 2018, 54, 830-833.	0.3	3
83	Temperature-controlled growth of micro- and nanocrystals on the surface of NiO+CuO/TiO ₂ /Ti composites. Vacuum, 2019, 167, 397-406.	1.6	3
84	Plasma Electrolytic Formation of WO ₃ -CuO or WO ₃ -CuWO ₄ Oxide Layers on Titanium. Key Engineering Materials, 0, 806, 51-56.	0.4	3
85	Role and behavior of ultra-thin gold films on the fiber materials surface in the CO oxidation process. Journal of Alloys and Compounds, 2021, 852, 157042.	2.8	3
86	On the Effect of an Electrolyte and Impregnating Solution on Microcrystal Growth on the Surface of W-Containing PEO Coatings on Titanium at Oxidative Annealing. Protection of Metals and Physical Chemistry of Surfaces, 2020, 56, 1201-1209.	0.3	3
87	Magnetic characteristics of iron-modified oxide layers on titanium. Russian Journal of Physical Chemistry A, 2014, 88, 2236-2242.	0.1	2
88	Silicate anodic coatings on aluminum containing oxides of cobalt and/or copper and/or cerium and their activity in CO oxidation. Protection of Metals and Physical Chemistry of Surfaces, 2015, 51, 821-828.	0.3	2
89	Application of the extraction-pyrolysis method in formation of bioactive coatings. Theoretical Foundations of Chemical Engineering, 2016, 50, 483-489.	0.2	2
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91	The Effect of Iron Precursors in an Electrolyte on the Formation, Composition, and Magnetic Properties of Oxide Coatings on Titanium. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2017, 53, 1005-1014.	0.3	2
92	Thermally Stimulated Transformation of the Surface Nanoarchitecture of Ni-and Cu-Doped Oxide Coatings on Titanium. <i>Defect and Diffusion Forum</i> , 0, 386, 283-289.	0.4	2
93	The Iron Distribution and Ferromagnetic Areas in PEO Coatings. <i>Defect and Diffusion Forum</i> , 2018, 386, 296-300.	0.4	2
94	Stability of titanium-supported layers of potassium titanates in soot oxidation. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2018, 125, 859-872.	0.8	2
95	Eu ₂ O ₃ /SiO ₂ nanocomposites obtained by extraction pyrolysis. <i>Theoretical Foundations of Chemical Engineering</i> , 2010, 44, 769-771.	0.2	1
96	Formation, composition, and catalytic activity of multicomponent oxide structures on aluminum. <i>Russian Journal of Applied Chemistry</i> , 2013, 86, 1643-1649.	0.1	1
97	EuFeO ₃ /TiO ₂ /Ti Composites: Formation, Composition, Magnetic and Luminescent Properties. <i>Solid State Phenomena</i> , 2015, 245, 178-181.	0.3	1
98	Nanocrystallites in the Pores and Magnetic Properties of PEO Coatings. <i>Solid State Phenomena</i> , 2015, 245, 190-194.	0.3	1
99	Effect of electrolyte components on the magnetic and magnetoresistive characteristics of Fe-containing plasma electrolytic oxide coatings on titanium. <i>Russian Journal of Physical Chemistry A</i> , 2017, 91, 599-603.	0.1	1
100	Ti/TiO ₂ , Au Electrodes Prepared by Plasma Electrolytic Oxidation and Electron Beam Evaporation. <i>Defect and Diffusion Forum</i> , 2018, 386, 326-331.	0.4	1
101	Catalytic Properties of K ₂ Ti ₂ O ₅ + K ₂ Ti ₄ O ₉ /TiO ₂ /TiO ₂ + SiO ₂ /Ti Composites and Their Resistance to Environment Effects during the Process of Carbon Black Oxidation. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2019, 55, 109-114.	0.3	1
102	Thermal Transformation of the Surface of Mn-, W-Containing Plasma Electrolytic Oxide Coatings on Titanium. <i>Russian Journal of Applied Chemistry</i> , 2019, 92, 1674-1679.	0.1	1
103	Plasma Electrolytic Synthesis and Characteristics of WO ₃ •FeO•Fe ₂ O ₃ and WO ₃ •FeO•Fe ₂ (WO ₄) ₃ Heterostructures. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2021, 57, 543-549.	0.3	1
104	Methods for Controlling the Surface Architecture of Coatings Formed by Plasma Electrolytic Oxidation. <i>Solid State Phenomena</i> , 0, 312, 341-348.	0.3	1
105	Features of Coalescence of Gold on the Surface of Different Supports during Catalytic Oxidation of CO. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2021, 57, 1172-1179.	0.3	1
106	Titania coatings decorated with ultra-thin gold films: Optical, electrochemical and photoelectrochemical properties. <i>Journal of Alloys and Compounds</i> , 2022, 913, 165320.	2.8	1
107	Correlation of the Microrelief of the Surface of Structure and Magnetic Properties of Oxidic Coverings on the Titan. <i>Advanced Materials Research</i> , 0, 712-715, 352-355.	0.3	0
108	Application of Plasma Electrolytic Oxidation for the Formation of Magnetoactive Oxide Laves. <i>Advanced Materials Research</i> , 0, 875-877, 341-345.	0.3	0

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109	Composition and magnetic characteristics of plasma electrolytic oxide coatings on titanium. Protection of Metals and Physical Chemistry of Surfaces, 2017, 53, 826-834.	0.3	0
110	Thermally Stimulated Evolution of the Surface of Ni- and Cu-Containing Plasma-Electrolytic Oxide Coatings on Titanium. Protection of Metals and Physical Chemistry of Surfaces, 2019, 55, 719-728.	0.3	0
111	Sn-Containing Oxide Coatings: Formation, Composition, Electroanalytical and Catalytic Properties. Key Engineering Materials, 0, 806, 70-75.	0.4	0
112	Advanced Methods for the Formation of Crust Catalysts for Oxidative Desulfurization. Kinetics and Catalysis, 2021, 62, 828-837.	0.3	0