Irina Lukiyanchuk

List of Publications by Year in Descending Order

111 papers	866 citations	16 h-index	23 g-index
112 ext. papers	970 ext. citations	2 avg, IF	3.98 L-index

#	Paper	IF	Citations
111	Ti/TiO2/NiWO4 + WO3 composites for oxidative desulfurization and denitrogenation. *Surface and Coatings Technology*, **2022**, 434, 128200	4.4	1
110	Fe-, Ni-containing ceramic-like PEO coatings on titanium and aluminum: Comparative analysis of the formation features, composition and ferromagnetic properties. *Materials Chemistry and Physics*, **2022**, 275, 125231	4.4	2
109	Titania coatings decorated with ultra-thin gold films: Optical, electrochemical and photoelectrochemical properties. *Journal of Alloys and Compounds*, **2022**, 913, 165320	5.7	
108	Ti/TiO2-CoWO4-Co3(PO4)2 composites: Plasma electrolytic synthesis, optoelectronic properties, and solar light-driven photocatalytic activity. *Journal of Alloys and Compounds*, **2021**, 863, 158066	5.7	1
107	Plasma Electrolytic Synthesis and Characteristics of WO3□eO□e2O3 and WO3□eO□e2(WO4)3 Heterostructures. *Protection of Metals and Physical Chemistry of Surfaces*, **2021**, 57, 543-549	0.9	
106	Preparation and Photocatalytic Properties of □Bi2O3/Bi2SiO5 Heterostructures. *Russian Journal of Inorganic Chemistry*, **2021**, 66, 943-949	1.5	1
105	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	5.7	1
104	Plasma electrolytic synthesis and characterization of oxide coatings with MWO4 (M = Co, Ni, Cu) as photo-Fenton heterogeneous catalysts. *Surface and Coatings Technology*, **2021**, 424, 127640	4.4	1
103	Advanced Methods for the Formation of Crust Catalysts for Oxidative Desulfurization. *Kinetics and Catalysis*, **2021**, 62, 828-837	1.5	
102	Features of Coalescence of Gold on the Surface of Different Supports during Catalytic Oxidation of CO. *Protection of Metals and Physical Chemistry of Surfaces*, **2021**, 57, 1172-1179	0.9	
101	Titanium-supported W-containing PEO layers enriched with Mn or Zn in oxidative desulfurization and the zwitterionic liquid effect. *Surface and Coatings Technology*, **2020**, 393, 125746	4.4	5
100	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	0.9	2
99	Magnetism of Fe-doped Al2O3 and TiO2 layers formed on aluminum and titanium by plasma-electrolytic oxidation. *Journal of Alloys and Compounds*, **2020**, 816, 152579	5.7	6
98	Oxide coatings with ferromagnetic characteristics on Al, Ti, Zr and Nb. *Surface and Coatings Technology*, **2020**, 381, 125180	4.4	3
97	Anodic-cathodic formation of pH-sensitive TiO2-MoOx films on titanium. *Journal of Electroanalytical Chemistry*, **2020**, 873, 114388	4.1	3
96	Effect of the Composition of Oxide Layers Formed by Plasma Electrolytic Oxidation on the Mechanism of Peroxide Oxidative Desulfurization. *Kinetics and Catalysis*, **2020**, 61, 283-290	1.5	3
95	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	0.9	

94	Plasma Electrolytic Formation of WO_3-CuO or WO_3-$CuWO_4$ Oxide Layers on Titanium. *Key Engineering Materials*, **2019**, 806, 51-56	0.4	3
93	Ce-, Zr-containing oxide layers formed by plasma electrolytic oxidation on titanium as catalysts for oxidative desulfurization. *Surface and Coatings Technology*, **2019**, 362, 132-140	4.4	13
92	Catalytic Properties of $K_2Ti_2O_5$ + $K_2Ti_4O_9$/TiO_2/TiO_2 + SiO_2/Ti Composites and Their Resistance to Environment Effects during the Process of Carbon Black Oxidation. *Protection of Metals and Physical Chemistry of Surfaces*, **2019**, 55, 109-114	0.9	
91	Thermally Controlled Formation of WO_3 Nano- and Microcrystals on the Surface of Coatings Produced on Titanium by Plasma Electrolytic Oxidation. *Inorganic Materials*, **2019**, 55, 681-686	0.9	6
90	Temperature-controlled growth of micro- and nanocrystals on the surface of NiO+CuO/TiO_2/Ti composites. *Vacuum*, **2019**, 167, 397-406	3.7	2
89	Thermal Transformation of the Surface of Mn-, W-Containing Plasma Electrolytic Oxide Coatings on Titanium. *Russian Journal of Applied Chemistry*, **2019**, 92, 1674-1679	0.8	1
88	Sn-Containing Oxide Coatings: Formation, Composition, Electroanalytical and Catalytic Properties. *Key Engineering Materials*, **2019**, 806, 70-75	0.4	
87	IR and Py-GC/MS investigation of composite PTFE/PEO coatings on aluminum. *Materials Chemistry and Physics*, **2019**, 221, 436-446	4.4	7
86	Peculiarities of Magnetic States of Iron-Cobalt Coatings Formed on Aluminum by Plasma Electrolytic Oxidation. *Journal of Superconductivity and Novel Magnetism*, **2018**, 31, 1933-1940	1.5	2
85	Effect of ▯pper ▯ating on fibers made of aluminum alloy, titanium, and FeCrAl alloy on surface morphology and activity in CO oxidation. *Applied Surface Science*, **2018**, 436, 1-10	6.7	13
84	Ti/TiO_2, Au Electrodes Prepared by Plasma Electrolytic Oxidation and Electron Beam Evaporation. *Defect and Diffusion Forum*, **2018**, 386, 326-331	0.7	1
83	Thermally Stimulated Transformation of the Surface Nanoarchitecture of Ni-and Cu-Doped Oxide Coatings on Titanium. *Defect and Diffusion Forum*, **2018**, 386, 283-289	0.7	1
82	The Iron Distribution and Ferromagnetic Areas in PEO Coatings. *Defect and Diffusion Forum*, **2018**, 386, 296-300	0.7	2
81	Iron Distribution and Ferromagnetic Characteristics of Fe-Containing PEO Coatings on Aluminum. *Protection of Metals and Physical Chemistry of Surfaces*, **2018**, 54, 830-833	0.9	2
80	Stability of titanium-supported layers of potassium titanates in soot oxidation. *Reaction Kinetics, Mechanisms and Catalysis*, **2018**, 125, 859-872	1.6	1
79	Effect of electrolyte components on the magnetic and magnetoresistive characteristics of Fe-containing plasma electrolytic oxide coatings on titanium. *Russian Journal of Physical Chemistry A*, **2017**, 91, 599-603	0.7	1
78	Catalytic properties of metallic fibers fabricated by tempering of melt on a rotating heat-receiver. *Protection of Metals and Physical Chemistry of Surfaces*, **2017**, 53, 287-293	0.9	6
77	Composition and magnetic characteristics of plasma electrolytic oxide coatings on titanium. *Protection of Metals and Physical Chemistry of Surfaces*, **2017**, 53, 826-834	0.9	

76	The Effect of Iron Precursors in an Electrolyte on the Formation, Composition, and Magnetic Properties of Oxide Coatings on Titanium. *Protection of Metals and Physical Chemistry of Surfaces*, **2017**, 53, 1005-1014	0.9	2
75	An X-ray photoelectron spectroscopy study of Ni, Cu-containing coatings formed by plasma electrolytic oxidation on aluminum and titanium. *Journal of Structural Chemistry*, **2017**, 58, 1129-1136	0.9	6
74	W-containing oxide layers obtained on aluminum and titanium by PEO as catalysts in thiophene oxidation. *Applied Surface Science*, **2017**, 422, 1007-1014	6.7	16
73	Application of the extraction-pyrolysis method in formation of bioactive coatings. *Theoretical Foundations of Chemical Engineering*, **2016**, 50, 483-489	0.9	1
72	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. *Protection of Metals and Physical Chemistry of Surfaces*, **2016**, 52, 526-531	0.9	7
71	Plasma electrolytic oxide layers as promising systems for catalysis. *Surface and Coatings Technology*, **2016**, 307, 1183-1193	4.4	33
70	Effect of the structure of the oxidized titanium surface on the particle size and properties of the deposited copper□molybdate catalyst. *Protection of Metals and Physical Chemistry of Surfaces*, **2016**, 52, 1024-1030	0.9	4
69	Catalytically active composite materials with porous aluminum oxide matrix modified by □MnO_2 nanoparticles. *Protection of Metals and Physical Chemistry of Surfaces*, **2016**, 52, 832-838	0.9	2
68	Aluminum- and titanium-supported plasma electrolytic multicomponent coatings with magnetic, catalytic, biocide or biocompatible properties. *Surface and Coatings Technology*, **2016**, 307, 1219-1235	4.4	26
67	Composition, structure, magnetic and luminescent properties of $EuFeO_3/TiO_2/Ti$ composites fabricated by combination of plasma electrolytic oxidation and extraction pyrolysis. *Journal of Alloys and Compounds*, **2015**, 647, 699-706	5.7	6
66	Silicate coatings on titanium modified by cobalt and/or copper oxides and their activity in CO oxidation. *Protection of Metals and Physical Chemistry of Surfaces*, **2015**, 51, 448-457	0.9	7
65	The effect of nanocrystallites in the pores of PEO coatings on their magnetic properties. *Surface and Coatings Technology*, **2015**, 269, 23-29	4.4	16
64	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	0.9	2
63	The structural catalyst $CuMoO_4/TiO_2/TiO_2 + SiO_2/Ti$ for diesel soot combustion. *Surface and Coatings Technology*, **2015**, 261, 344-349	4.4	9
62	Structure and magnetic characteristics of iron-modified titania layers on titanium. *Journal of Alloys and Compounds*, **2015**, 618, 623-628	5.7	13
61	$EuFeO_3/TiO_2/Ti$ Composites: Formation, Composition, Magnetic and Luminescent Properties. *Solid State Phenomena*, **2015**, 245, 178-181	0.4	1
60	Layers with tantalum oxides on stainless steel. *Protection of Metals and Physical Chemistry of Surfaces*, **2015**, 51, 817-820	0.9	2
59	Nanocrystallites in the Pores and Magnetic Properties of PEO Coatings. *Solid State Phenomena*, **2015**, 245, 190-194	0.4	1

58	Coatings with calcium and strontium phosphates and tantalum oxide on titanium for biomedical applications. *Protection of Metals and Physical Chemistry of Surfaces*, **2015**, 51, 968-972	0.9	4
57	Plasma electrolytic oxide coatings on valve metals and their activity in CO oxidation. *Applied Surface Science*, **2014**, 315, 481-489	6.7	19
56	Ta-containing coatings formed on titanium and stainless steel by plasma electrolytic oxidation and/or extraction pyrolysis. *Surface and Coatings Technology*, **2014**, 258, 1232-1238	4.4	7
55	Oxide coatings modified with transition and rare-earth metals on aluminum and their activity in CO oxidation. *Protection of Metals and Physical Chemistry of Surfaces*, **2014**, 50, 508-515	0.9	4
54	Oxide layers with Pd-containing nanoparticles on titanium. *Applied Catalysis A: General*, **2014**, 485, 222-229	5.1	5
53	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	0.7	4
52	Catalytically active cobalt-copper-oxide layers on aluminum and titanium. *Protection of Metals and Physical Chemistry of Surfaces*, **2014**, 50, 209-217	0.9	7
51	Growth of nanowires on the surfaces of multicomponent oxide coatings on titanium. *Protection of Metals and Physical Chemistry of Surfaces*, **2014**, 50, 191-194	0.9	5
50	Influence of Magnetostatic Interactions on Magnetization Process of Iron-Containing Coatings, Produced Using the Plasma Electrolytic Oxidation Method. *Solid State Phenomena*, **2014**, 215, 200-203	0.4	3
49	Magnetic characteristics of iron-modified oxide layers on titanium. *Russian Journal of Physical Chemistry A*, **2014**, 88, 2236-2242	0.7	2
48	Application of Plasma Electrolytic Oxidation for the Formation of Magnetoactive Oxide Layes. *Advanced Materials Research*, **2014**, 875-877, 341-345	0.5	
47	Magnetic properties of plasma-electrolytic iron-containing oxide coatings on aluminum alloy. *Protection of Metals and Physical Chemistry of Surfaces*, **2013**, 49, 309-318	0.9	18
46	Composites with transition metal oxides on aluminum and titanium and their activity in CO oxidation. *Surface and Coatings Technology*, **2013**, 231, 433-438	4.4	16
45	Catalytically active coatings of noble metals and oxides of rare-earth elements. *Russian Journal of Applied Chemistry*, **2013**, 86, 727-732	0.8	3
44	Silicate coatings on titanium, modified with transition metal oxides and their activity in CO oxidation. *Russian Journal of Applied Chemistry*, **2013**, 86, 319-325	0.8	7
43	Tantalum oxide-modified calcium phosphate coatings on titanium for biomedical applications. *Russian Journal of Applied Chemistry*, **2013**, 86, 119-123	0.8	8
42	Formation, composition, and catalytic activity of multicomponent oxide structures on aluminum. *Russian Journal of Applied Chemistry*, **2013**, 86, 1643-1649	0.8	1
41	Ta-containing oxide coatings on titanium for biomedical application. *Russian Journal of Applied Chemistry*, **2013**, 86, 1340-1343	0.8	4

40	The nanostructural catalytic composition CuMoO4/TiO2 + SiO2/Ti for combustion of diesel soot. *Surface and Coatings Technology*, **2013**, 231, 144-148	4.4	24
39	Oxide layers with ferro- and ferrimagnetic characteristics formed on aluminum via plasma electrolytic oxidation. *Russian Journal of Physical Chemistry A*, **2013**, 87, 1052-1056	0.7	9
38	Correlation of the Microrelief of the Surface of Structure and Magnetic Properties of Oxidic Coverings on the Titan. *Advanced Materials Research*, **2013**, 712-715, 352-355	0.5	
37	Deposition of cobalt-containing films on titanium by plasma electrolytic oxidation. *Russian Journal of Applied Chemistry*, **2012**, 85, 953-956	0.8	3
36	Composition, surface structure, and thermal behavior of ZrO2 + TiO2/Ti and ZrO2 + CeO x + TiO2 composites formed by plasma-electrolytic oxidation. *Protection of Metals and Physical Chemistry of Surfaces*, **2012**, 48, 455-461	0.9	16
35	Bifunctional Fe-containing coatings formed on aluminum by plasma-electrolytic oxidation. *Russian Journal of Applied Chemistry*, **2012**, 85, 1686-1690	0.8	5
34	Highly efficient nanoarchitectured Ni5TiO7 catalyst for biomass gasification. *ACS Applied Materials & Interfaces*, **2012**, 4, 4062-6	9.5	29
33	Thermal behavior of Ni- and Cu-containing plasma electrolytic oxide coatings on titanium. *Applied Surface Science*, **2012**, 258, 8667-8672	6.7	15
32	The effect of the conditions of formation on ferromagnetic properties of iron-containing oxide coatings on titanium. *Protection of Metals and Physical Chemistry of Surfaces*, **2012**, 48, 543-552	0.9	25
31	The thermal effect on magnetic properties of iron-containing coatings formed on titanium by plasma-electrolytic oxidation. *Protection of Metals and Physical Chemistry of Surfaces*, **2012**, 48, 671-677	0.9	6
30	Titanium-supported Ce-, Zr-containing oxide coatings modified by platinum or nickel and copper oxides and their catalytic activity in CO oxidation. *Surface and Coatings Technology*, **2011**, 206, 417-424	4.4	23
29	Preparation, properties, and catalytic activity of platinum-modified plasma electrolytic oxide structures on aluminum. *Russian Journal of Inorganic Chemistry*, **2011**, 56, 1429-1435	1.5	3
28	Pt/SiO2 and Pt/TiO2/Ti compositions and their catalytic properties. *Theoretical Foundations of Chemical Engineering*, **2011**, 45, 496-499	0.9	5
27	Comparative analysis of the composition, structure, and catalytic activity of the NiO-CuO-TiO2 on Titanium and NiO-CuO-Al2O3 on aluminum composites. *Kinetics and Catalysis*, **2010**, 51, 266-272	1.5	21
26	The organization of the surface of multicomponent plasma-electrolytic anode layers on aluminum. *Russian Journal of Physical Chemistry A*, **2010**, 84, 1059-1064	0.7	5
25	Eu2O3/SiO2 nanocomposites obtained by extraction pyrolysis. *Theoretical Foundations of Chemical Engineering*, **2010**, 44, 769-771	0.9	1
24	Magnetic properties of iron-containing coatings formed by plasma-electrolytic oxidation. *Bulletin of the Russian Academy of Sciences: Physics*, **2010**, 74, 1404-1406	0.4	13
23	Calcium-containing biocompatible oxide-phosphate coatings on titanium. *Russian Journal of Applied Chemistry*, **2010**, 83, 671-679	0.8	17

22	Deposition, composition, and activity in CO oxidation of anodic layers with platinum on aluminum and titanium. *Russian Journal of Applied Chemistry*, **2010**, 83, 680-686	0.8	9
21	Magnetoactive oxide layers formed on titanium by plasma-electrolytic technique. *Protection of Metals and Physical Chemistry of Surfaces*, **2010**, 46, 566-572	0.9	24
20	Magnetic properties of plasma electrolytic iron-containing oxide coatings on aluminum. *Doklady Physical Chemistry*, **2009**, 428, 189-192	0.8	30
19	Pt-containing oxide layers on titanium and aluminum. *Inorganic Materials*, **2009**, 45, 414-417	0.9	6
18	Formation, structure, composition, and catalytic properties of Ni-, Cu-, Mn-, Fe-, and co-containing films on aluminum. *Russian Journal of Applied Chemistry*, **2009**, 82, 1000-1007	0.8	8
17	Micrograins on the surface of anodic films. *Protection of Metals and Physical Chemistry of Surfaces*, **2009**, 45, 71-74	0.9	9
16	Catalytic properties of Ni-, Cu-containing oxide film/aluminum alloy composition. *Protection of Metals and Physical Chemistry of Surfaces*, **2009**, 45, 580-582	0.9	6
15	Surface structure of multicomponent oxide coatings on titanium. *Protection of Metals and Physical Chemistry of Surfaces*, **2009**, 45, 709-712	0.9	4
14	Catalytic properties of aluminum/nickel-, copper-containing oxide film compositions. *Kinetics and Catalysis*, **2008**, 49, 439-445	1.5	18
13	Ni- and Cu-containing oxide layers on aluminum: Formation, composition, and catalytic properties. *Doklady Physical Chemistry*, **2007**, 415, 183-185	0.8	15
12	Tungsten oxide films on aluminum and titanium. *Inorganic Materials*, **2007**, 43, 264-267	0.9	17
11	Electrolytic-plasma oxidation in borate electrolytes. *Protection of Metals*, **2006**, 42, 55-59		4
10	On the Surface Structure of Coatings Formed by Anodic Spark Method. *Protection of Metals*, **2004**, 40, 352-357		7
9	Anodic-spark layers on aluminum and titanium alloys in electrolytes with sodium phosphotungstate. *Russian Journal of Applied Chemistry*, **2004**, 77, 1460-1468	0.8	7
8	Surface morphology, composition and thermal behavior of tungsten-containing anodic spark coatings on aluminium alloy. *Thin Solid Films*, **2004**, 446, 54-60	2.2	61
7	Modification with Manganese of Anodic Layers Containing Tungsten Oxides. *Russian Journal of Applied Chemistry*, **2003**, 76, 1597-1599	0.8	3
6	Spark-Anodic Oxide Coatings Formed on Al and Ti Alloys in Tungstate-Containing PhosphateVanadate Baths. *Protection of Metals*, **2002**, 38, 191-195		12
5	Phase Composition of Coatings Formed on Titanium in Borate Electrolyte by Microarch Oxidation. *Russian Journal of Applied Chemistry*, **2002**, 75, 569-572	0.8	12

4	Anodic-Spark Oxidation of Aluminum Alloy in Tungstate Electrolytes. *Russian Journal of Applied Chemistry*, **2002**, 75, 573-578	0.8	15
3	Anodic-Spark Deposition of P- and W(Mo)-Containing Coatings onto Aluminum and Titanium Alloys. *Russian Journal of Applied Chemistry*, **2002**, 75, 1082-1086	0.8	11
2	Anodic-Spark Layers Formed on Aluminum Alloy in Tungstate-Borate Electrolytes. *Russian Journal of Applied Chemistry*, **2002**, 75, 1972-1978	0.8	5
1	Methods for Controlling the Surface Architecture of Coatings Formed by Plasma Electrolytic Oxidation. *Solid State Phenomena*,312, 341-348	0.4	1