

Anatolii Malygin

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

87
papers

349
citations

9
h-index

13
g-index

92
ext. papers

379
ext. citations

1
avg, IF

3.13
L-index

#	Paper	IF	Citations
87	CVD Titania/Silica Gel Carbonized Due to Pyrolysis of Cyclohexene. <i>Langmuir</i> , 2000 , 16, 3227-3243	4	37
86	Characteristics of the Hydration Layer Structure in Porous Titania/Silica Obtained by the Chemical Vapor Deposition Method. <i>Langmuir</i> , 1999 , 15, 8441-8446	4	17
85	Effect of chemical modification on structural and energy characteristics of the surface of polyethylene and polyvinyl chloride films. <i>Russian Journal of Applied Chemistry</i> , 2009 , 82, 622-629	0.8	16
84	Synthesis of Porous Magnesium Oxide by Thermal Decomposition of Basic Magnesium Carbonate. <i>Russian Journal of General Chemistry</i> , 2003 , 73, 37-42	0.7	14
83	Influence of chemical modification of the surface of low-density polyethylene on its electret properties. <i>Russian Journal of Applied Chemistry</i> , 2007 , 80, 461-465	0.8	12
82	Influence of Chemical Modification of the Surface on the Electret Properties of Polytetrafluoroethylene. <i>Russian Journal of Applied Chemistry</i> , 2004 , 77, 276-280	0.8	12
81	Synthesis of Multicomponent Oxide Low-Dimensional Systems on the Surface of Porous Silicon Dioxide Using the Molecular Layering Method. <i>Russian Journal of General Chemistry</i> , 2002 , 72, 575-589	0.7	10
80	Hydrolytic stability of the Si-O-Ti bonds in the chemical assembly of titania nanostructures on silica surfaces. <i>Russian Chemical Reviews</i> , 2010 , 79, 907-920	6.8	9
79	A new approach to processing electronic diffuse reflectance spectra. <i>Russian Journal of Physical Chemistry A</i> , 2009 , 83, 642-648	0.7	9
78	Interaction of Titanium Tetrachloride with Products of Thermal Decomposition of Basic Magnesium Carbonate. <i>Russian Journal of Applied Chemistry</i> , 2003 , 76, 7-11	0.8	8
77	The effect exerted by temperature on the phase formation of titanium oxide layer on silica surface at different stages of molecular layering. <i>Russian Journal of Applied Chemistry</i> , 2010 , 83, 1511-1519	0.8	7
76	Quantum-chemical analysis and experimental study of the process of the silica surface interaction with the CrO ₂ Cl ₂ and VOCl ₃ vapor mixture. <i>Russian Journal of General Chemistry</i> , 2010 , 80, 1168-1175	0.7	6
75	Synthesis and in situ gravimetric monitoring of formation of titanium-oxide layer on silica surface. <i>Russian Journal of Applied Chemistry</i> , 2004 , 77, 1227-1231	0.8	6
74	Reactivity of Phenol-Formaldehyde Microspheres toward PCl ₃ , VOCl ₃ , and CrO ₂ Cl ₂ Vapors. <i>Russian Journal of Applied Chemistry</i> , 2002 , 75, 969-973	0.8	6
73	Quantum-chemical analysis and experimental synthesis of titanium-vanadium-containing coatings on the silica surface from a mixture of TiCl ₄ and VOCl ₃ vapors. <i>Russian Journal of General Chemistry</i> , 2016 , 86, 2113-2123	0.7	5
72	Chemical transformations at the silica surface upon sequential interactions with titanium tetrachloride and ammonia vapors. <i>Russian Journal of General Chemistry</i> , 2015 , 85, 2533-2540	0.7	5
71	Synthesis of titanium oxide structures on mesoporous silicon dioxide surface by molecular layering. <i>Colloid Journal</i> , 2011 , 73, 495-503	1.1	5

70	Phase transformations in titanium dioxide thin films during chemical synthesis under strongly nonequilibrium conditions. <i>Physics of the Solid State</i> , 2009 , 51, 495-497	0.8	5
69	Quantum-chemical approaches to identification of nanostructures synthesized by molecular layering technique. <i>Russian Journal of General Chemistry</i> , 2010 , 80, 643-657	0.7	5
68	Synthesis and properties of polyvinyl chloride films with modified surface. <i>Russian Journal of Applied Chemistry</i> , 2006 , 79, 1316-1320	0.8	5
67	Surface structure and thermal oxidative degradation of the reaction products of polyethylene with PCl ₃ and VOCl ₃ vapors. <i>Russian Journal of Applied Chemistry</i> , 2004 , 77, 1854-1858	0.8	5
66	Effect of the composition of (Mo, Nb, V, Ti)/Al ₂ O ₃ surface oxide structures on the oxidative dehydrogenation of ethane to ethylene. <i>Russian Journal of Applied Chemistry</i> , 2016 , 89, 34-39	0.8	4
65	Effect of the composition and structure of the surface layer on the functional properties of a core(Al ₂ O ₃)-Shell(VO _x /TiO _y) composite. <i>Russian Journal of Applied Chemistry</i> , 2014 , 87, 23-30	0.8	4
64	Temperature factor in interaction of nanotubular magnesium hydrosilicate, Mg ₃ Si ₂ O ₅ (OH) ₄ , with titanium tetrachloride and water vapors. <i>Russian Journal of Applied Chemistry</i> , 2014 , 87, 151-159	0.8	4
63	The role of a reference sample in the study of the titanium-containing silicas by ultraviolet-visible diffuse reflectance spectroscopy. <i>Russian Journal of General Chemistry</i> , 2013 , 83, 231-237	0.7	4
62	Mechanism of thermal oxidation of silicon carbide modified by chromium oxide structures. <i>Russian Journal of General Chemistry</i> , 2014 , 84, 2375-2381	0.7	4
61	Temperature influence on the formation of titanium-oxide structures on finely porous silica. <i>Russian Journal of General Chemistry</i> , 2011 , 81, 41-48	0.7	4
60	Structure of the products of TiCl ₄ chemisorption on the surface of porous silica in the process of vapor-phase hydrolysis. <i>Russian Journal of General Chemistry</i> , 2010 , 80, 1176-1182	0.7	4
59	Optimization of properties of inorganic catalytic membranes using molecular layering nanotechnology. <i>Nanotechnologies in Russia</i> , 2010 , 5, 153-159	0.6	4
58	AFM examination of nanolayers synthesised by the molecular layering method on the surface of manufacturing glasses. <i>Semiconductors</i> , 2007 , 41, 498-501	0.7	4
57	Structure of products formed in chemisorption of titanium tetrachloride by porous silicas. <i>Russian Journal of Applied Chemistry</i> , 2007 , 80, 2057-2062	0.8	4
56	Free charge carrier repartition over the surface of photosensitive materials: Why and how to manage?. <i>Russian Journal of General Chemistry</i> , 2008 , 78, 1070-1080	0.7	4
55	Features of sample preparation and atomic force microscopy study of dispersed nanomaterials. <i>Journal of Surface Investigation</i> , 2008 , 2, 699-704	0.5	4
54	Possibility of quantum chemical evaluation of the probability of various chemical transformations in syntheses of phosphorus-, titanium-, silicon-, and vanadium-containing structures on the silica surface. <i>Russian Journal of Applied Chemistry</i> , 2006 , 79, 175-181	0.8	4
53	The influence of titanium oxide nanocoatings on the surface quality of glass products for electronic devices. <i>Glass Physics and Chemistry</i> , 2006 , 32, 70-74	0.7	4

52	Damping of the Growth of Titanium Oxide Nanolayer Formed by Molecular Layer Deposition Technique on Oxidized Silicon Surface. <i>Russian Journal of Applied Chemistry</i> , 2004 , 77, 1061-1065	0.8	4
51	Calculation of the Stoichiometric Composition of Nanostructures Synthesized by Molecular Layer Deposition on the Surface of Solid Matrices. <i>Russian Journal of Applied Chemistry</i> , 2005 , 78, 367-374	0.8	4
50	Quantum-chemical approach to optimization of the synthesis conditions of two-component phosphorus-titanium oxide structures on silica surface. <i>Russian Journal of General Chemistry</i> , 2016 , 86, 2263-2272	0.7	4
49	Atomic force microscopic study of variations in the surface morphology of porous silica upon thermal treatment. <i>Colloid Journal</i> , 2012 , 74, 380-385	1.1	3
48	Effect of temperature treatment on the interaction of nanotubular magnesium silicate Mg ₃ Si ₂ O ₅ (OH) ₄ with titanium tetrachloride and water vapors. <i>Russian Journal of Applied Chemistry</i> , 2012 , 85, 1319-1326	0.8	3
47	Influence of chemical modification of the surface of polyethylene with phosphorus, boron, titanium, vanadium, and silicon halides on its vapor permeability. <i>Russian Journal of Applied Chemistry</i> , 2007 , 80, 1413-1418	0.8	3
46	Thermal stability of polymer compositions with modified alumina. <i>Russian Journal of General Chemistry</i> , 2008 , 78, 2214-2219	0.7	3
45	Effect of the substrate nature on the formation of thin titanium dioxide films by molecular layering. <i>Russian Journal of Applied Chemistry</i> , 2008 , 81, 2051-2055	0.8	3
44	Preparation of tin oxide nanocoatings on borosilicate glass by the molecular layering method. <i>Glass Physics and Chemistry</i> , 2008 , 34, 534-542	0.7	3
43	Study of high-porous silica surface by atomic force microscopy re]20071018. <i>Journal of Surface Investigation</i> , 2008 , 2, 696-698	0.5	3
42	Influence of the physicochemical treatment procedure on the morphology and properties of the polyvinyl chloride film surface. <i>Russian Journal of Applied Chemistry</i> , 2006 , 79, 1857-1861	0.8	3
41	Effect of the chemical modification of the filler surface on the structure and permeability of a composite film based on polyvinyl chloride. <i>Russian Journal of Applied Chemistry</i> , 2015 , 88, 110-117	0.8	2
40	Chemical and physical modification and electret properties of polytetrafluoroethylene films. <i>Russian Journal of Applied Chemistry</i> , 2016 , 89, 930-936	0.8	2
39	Properties of Polytetrafluoroethylene Films Modified with Titanium and Phosphorus Oxide Structures. <i>Russian Journal of Applied Chemistry</i> , 2019 , 92, 1128-1134	0.8	2
38	Structural and chemical transformations in the products of the interaction of silica gel with vapours of TiCl ₄ and H ₂ O. <i>Applied Surface Science</i> , 2014 , 288, 584-590	6.7	2
37	Chemical assembly of a titanium oxide layer on microporous silica. <i>Russian Journal of General Chemistry</i> , 2017 , 87, 1786-1793	0.7	2
36	Synthesis and protective properties of titanium nitride coatings on willemite. <i>Russian Journal of Applied Chemistry</i> , 2012 , 85, 1070-1076	0.8	2
35	Membranes Prepared via Molecular Layering Method 2011 , 357-369		2

34	The effect of temperature on the formation of titanium dioxide structures on Al ₂ O ₃ surface. <i>Russian Journal of Applied Chemistry</i> , 2010 , 83, 1520-1524	0.8	2
33	Phase formation in a nanosize silicon oxide film on the surface of aluminum oxide. <i>Technical Physics Letters</i> , 1998 , 24, 1-3	0.7	2
32	AFM application for in situ study of adsorption processes. <i>Semiconductors</i> , 2007 , 41, 495-497	0.7	2
31	Thermal transformations of a polymeric composite consisting of poly(methyl methacrylate) and phosphorus-containing nanodispersed aluminum oxide. <i>Russian Journal of Applied Chemistry</i> , 2007 , 80, 2119-2123	0.8	2
30	Formation and properties of the nanocluster structure of iron oxides. <i>Russian Chemical Bulletin</i> , 2006 , 55, 1755-1767	1.7	2
29	Effects of silica and titania modification additions on the microstructure of sintered alumina. <i>Inorganic Materials</i> , 2000 , 36, 1127-1132	0.9	2
28	Thermal oxidation of silicon carbide with surface modification by the molecular layering method. <i>Refractories</i> , 1985 , 26, 82-84		2
27	Growth of Titanium Oxide Nanostructures on SiC by Atomic Layer Deposition. <i>Inorganic Materials</i> , 2020 , 56, 1234-1241	0.9	2
26	Oxidative Dehydrogenation of Ethane on Oxide Materials in a Pulsed Microcatalytic and a Membrane Reactor. <i>Inorganic Materials</i> , 2018 , 54, 1136-1143	0.9	2
25	Effect of a Thermal-Vacuum Treatment and X-Ray Radiation on the Morphology and Electrical Properties of Titanium Oxide Nanocoatings. <i>Russian Journal of Applied Chemistry</i> , 2019 , 92, 883-892	0.8	1
24	Quantum Chemical Analysis of the Processes of Synthesis of Vanadium Oxide Structures on the Silica Surface. <i>Russian Journal of General Chemistry</i> , 2020 , 90, 880-888	0.7	1
23	Molecular layering of phosphorus oxide structures on the surface of gamma alumina. <i>Russian Journal of Applied Chemistry</i> , 2016 , 89, 1573-1578	0.8	1
22	Influence of ZrO ₅ treatment temperature on the interaction with titanium tetrachloride. <i>Russian Journal of General Chemistry</i> , 2016 , 86, 1001-1007	0.7	1
21	Synthesis and thermochemical transformations of vanadium oxychloride groups on a silica surface. <i>Russian Journal of Physical Chemistry A</i> , 2014 , 88, 530-536	0.7	1
20	Interaction of titanium tetrachloride vapors with zirconium dioxide nanocrystals. <i>Russian Journal of Applied Chemistry</i> , 2012 , 85, 1950-1954	0.8	1
19	Temperature effect on polymorphic transformations in silica matrix/titania coating systems. <i>Inorganic Materials</i> , 2011 , 47, 495-501	0.9	1
18	Chemical assembly of chromium oxide structures on the surface of disperse silicon carbide. <i>Russian Journal of Applied Chemistry</i> , 2011 , 84, 1299-1303	0.8	1
17	Structural, chemical, and dynamic characteristics of ceramic membranes modified with self-organized supramolecular silicon oxide systems. <i>Russian Journal of Applied Chemistry</i> , 2009 , 82, 378-386	0.8	1

16	A study of phase transformations in the surface layer of titanium dioxide. <i>Russian Journal of Applied Chemistry</i> , 2009 , 82, 783-788	0.8	1
15	Perspectives of application of the molecular layer deposition technique for controlling operational properties of materials for shipbuilding. <i>Russian Journal of General Chemistry</i> , 2010 , 80, 2181-2191	0.7	1
14	METHOD OF ESDR-SPECTRA PROCESSING FOR THE CHARACTERIZATION OF NANOSTRUCTURES AT THE SOLID'S SURFACE. <i>Integrated Ferroelectrics</i> , 2008 , 103, 41-51	0.8	1
13	Effect of the metallic modifier is nature on the surface microstructure of the phenolic carboplastic-steel interface. <i>Journal of Friction and Wear</i> , 2008 , 29, 470-476	0.9	1
12	Thermal Transformations of Titanium Oxochloride Nanostructures on Silica Surface. <i>Russian Journal of Applied Chemistry</i> , 2005 , 78, 859-864	0.8	1
11	Nanotechnology of Molecular Layering in Production of Inorganic and Hybrid Materials for Various Functional Purposes (a Review): I. History of the Development of the Molecular Layering Method. <i>Russian Journal of Applied Chemistry</i> , 2021 , 94, 1022-1037	0.8	1
10	Effect of Composition and Structure of Element Oxide Nanostructures Grafted at Polyethylene Film Surface on Electret Characteristics of the Polymer. <i>Russian Journal of General Chemistry</i> , 2021 , 91, 1075-1083	0.7	1
9	Structural and Morphological Features of Polycrystalline Aluminum Oxide Surface after Nanocoating with Titanium Oxide of Different Thickness. <i>Russian Journal of General Chemistry</i> , 2020 , 90, 1670-1676	0.7	0
8	Phase Transitions in the Bulk and on Surfaces of Titanium Dioxide during Heat Treatment. <i>Russian Journal of Physical Chemistry A</i> , 2022 , 96, 179-189	0.7	0
7	Scanning probe microscopy estimation of the wear resistance of the surface of a modified PVC film. <i>Russian Metallurgy (Metally)</i> , 2017 , 2017, 312-318	0.5	
6	Third Russian Conference Surface Chemistry and Nanotechnology (with international participation). <i>Russian Journal of General Chemistry</i> , 2007 , 77, 323-324	0.7	
5	Nanotechnology of Molecular Layering in Production of Inorganic and Hybrid Materials for Various Functional Purposes: II. Molecular Layering Technology and Prospects for Its Commercialization and Development in the XXI Century. <i>Russian Journal of Applied Chemistry</i> , 2021 , 94, 1189-1215	0.8	
4	Influence of Structure of Chemically Grafted onto Polyethylene Surface Two-Component Titanium-Phosphoroxide Nanostructures on the Properties of Composite Material. <i>Russian Journal of Applied Chemistry</i> , 2020 , 93, 1192-1201	0.8	
3	The Molecular Layering Method as a Basis of Chemical Nanotechnology 1999 , 487-495		
2	Electret Materials Based on Fluoropolymers Modified with Vanadium- and Phosphorus-Containing Structures. <i>Russian Journal of Applied Chemistry</i> , 2021 , 94, 777-786	0.8	
1	Experimental Assessment of the Structural Parameters of Highly Porous Silica: Probe Microscopy Data. <i>Glass Physics and Chemistry</i> , 2019 , 45, 365-371	0.7	