

# Eugene N Kabachkov

## List of Publications by Citations

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83

papers

425

citations

11

h-index

16

g-index

94

ext. papers

566

ext. citations

2.1

avg, IF

3.72


L-index

#	Paper	IF	Citations
83	Structure of metallic nanowires and nanoclusters formed in superfluid helium. <i>Journal of Experimental and Theoretical Physics</i> , <b>2011</b> , 112, 1061-1070	1	44
82	Impact of remnant surface polarization on photocatalytic and antibacterial performance of BaTiO <sub>3</sub> . <i>Journal of the European Ceramic Society</i> , <b>2019</b> , 39, 2915-2922	6	35
81	Preparation of graphene oxide-humic acid composite-based ink for printing thin film electrodes for micro-supercapacitors. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 730, 88-95	5.7	22
80	Air purification equipment combining a filter coated by silver nanoparticles with a nano-TiO <sub>2</sub> photocatalyst for use in hospitals. <i>Advances in Natural Sciences: Nanoscience and Nanotechnology</i> , <b>2015</b> , 6, 015016	1.6	21
79	Correlation of Surface Area with Photocatalytic Activity of TiO <sub>2</sub> . <i>Journal of Advanced Oxidation Technologies</i> , <b>2018</b> , 21, 127-137		17
78	Adsorption of lanthanides(III), uranium(VI) and thorium(IV) from nitric acid solutions by carbon inverse opals modified with tetraphenylmethylenediphosphine dioxide. <i>Journal of Colloid and Interface Science</i> , <b>2013</b> , 405, 183-8	9.3	16
77	Phase transformations in nanostructural anatase TiO <sub>2</sub> under shock compression conditions studied by Raman spectroscopy. <i>Technical Physics Letters</i> , <b>2010</b> , 36, 841-843	0.7	15
76	Novel Superhydrophobic Aerogel on the Base of Polytetrafluoroethylene. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 32517-32522	9.5	14
75	Oxidation behavior of TiB <sub>2</sub> micro- and nanoparticles. <i>Inorganic Materials</i> , <b>2016</b> , 52, 686-693	0.9	14
74	sp amorphous carbons in view of multianalytical consideration: Normal, expected and new. <i>Journal of Non-Crystalline Solids</i> , <b>2019</b> , 524, 119608	3.9	13
73	Introduction of peroxo groups into titania: preparation, characterization and properties of the new peroxo-containing phase. <i>CrystEngComm</i> , <b>2015</b> , 17, 7113-7123	3.3	12
72	Polymorphic transformations in nanostructured anatase (TiO <sub>2</sub> ) under high-pressure shock compression. <i>Technical Physics</i> , <b>2013</b> , 58, 1029-1033	0.5	11
71	Hydrophilic and hydrophobic pores in reduced graphene oxide aerogel. <i>Journal of Porous Materials</i> , <b>2019</b> , 26, 1111-1119	2.4	11
70	Synthesis and properties of a platinum catalyst supported on plasma chemical silicon carbide. <i>High Energy Chemistry</i> , <b>2017</b> , 51, 46-50	0.9	9
69	Properties of a granulated nitrogen-doped graphene oxide aerogel. <i>Journal of Non-Crystalline Solids</i> , <b>2018</b> , 498, 236-243	3.9	9
68	Characterisation and electrical conductivity of polytetrafluoroethylene/graphite nanoplatelets composite films. <i>Applied Physics A: Materials Science and Processing</i> , <b>2019</b> , 125, 1	2.6	8
67	Synthesis and characterization of C <sub>60</sub> -based composites of amphiphilic N-vinylpyrrolidone/triethylene glycol dimethacrylate copolymers. <i>Polymer Composites</i> , <b>2014</b> , 35, 1362-1371		8

66	Exchange of cysteamine, thiol ligand in binuclear cationic tetranitrosyl iron complex, for glutathione. <i>RSC Advances</i> , <b>2014</b> , 4, 24560-24565	3.7	7
65	Microporous and mesoporous carbon nanostructures with the inverse opal lattice. <i>Physics of the Solid State</i> , <b>2013</b> , 55, 1105-1110	0.8	7
64	Reversible dissociation and ligand-glutathione exchange reaction in binuclear cationic tetranitrosyl iron complex with penicillamine. <i>Bioinorganic Chemistry and Applications</i> , <b>2014</b> , 2014, 641407	4.2	7
63	Electrochemical synthesis of composite based on polyaniline and activated IR pyrolyzed polyacrylonitrile on graphite foil electrode for enhanced supercapacitor properties. <i>Electrochimica Acta</i> , <b>2020</b> , 354, 136671	6.7	6
62	Synthesis and properties of a CO oxidation catalyst based on plasma-chemical silicon carbide, titanium dioxide, and palladium. <i>High Energy Chemistry</i> , <b>2018</b> , 52, 90-94	0.9	6
61	The features of the formation of the hybrid nanostructures of C60 fullerene and amphiphilic copolymer of N-vinylpyrrolidone with (di)methacrylates in isopropyl alcohol and its mixtures with water. <i>Colloid and Polymer Science</i> , <b>2016</b> , 294, 2087-2097	2.4	6
60	Photocatalytic equipment with nitrogen-doped titanium dioxide for air cleaning and disinfecting. <i>Advances in Natural Sciences: Nanoscience and Nanotechnology</i> , <b>2014</b> , 5, 015017	1.6	6
59	Correlation between the E g (1) oscillation frequency and half-width of the (101) peak in the X-ray diffraction pattern of TiO <sub>2</sub> anatase nanoparticles. <i>Technical Physics</i> , <b>2010</b> , 55, 141-143	0.5	6
58	Comparative Study of Graphite and the Products of Its Electrochemical Exfoliation. <i>Russian Journal of Electrochemistry</i> , <b>2018</b> , 54, 825-834	1.2	6
57	The Effect of Supports of Glassy Carbon and Activated Graphite Foil on the Electrochemical Behavior of Composite Coatings Based on Polyaniline and Its N-Substituted Derivatives. <i>Russian Journal of Electrochemistry</i> , <b>2019</b> , 55, 745-755	1.2	5
56	New Approach to Creating Superhydrophobic Surfaces. <i>High Energy Chemistry</i> , <b>2019</b> , 53, 47-49	0.9	5
55	PTFE/rGO Aerogels with Both Superhydrophobic and Superhydrophilic Properties for Electroreduction of Molecular Oxygen. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 7573-7581	4.1	5
54	Preparation and Characterization of a Flexible rGO-PTFE Film for a Supercapacitor Current Collector. <i>Langmuir</i> , <b>2020</b> , 36, 8680-8686	4	5
53	Fourier transform infrared spectroscopic study of the photocatalytic degradation of cancerous cells on titanium dioxide. <i>High Energy Chemistry</i> , <b>2010</b> , 44, 426-430	0.9	5
52	SiC/C nanocomposites with inverse opal structure. <i>Nanotechnology</i> , <b>2010</b> , 21, 475604	3.4	5
51	Heteroatom necklaces of sp <sup>2</sup> amorphous carbons. XPS supported INS and DRIFT spectroscopy. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , <b>2020</b> , 28, 1010-1029	1.8	5
50	Doping Graphene Oxide Aerogel with Nitrogen during Reduction with Hydrazine and Low Temperature Annealing in Air. <i>Russian Journal of Physical Chemistry A</i> , <b>2019</b> , 93, 296-300	0.7	4
49	Carbon material with high specific surface area and high pseudocapacitance: Possible application in supercapacitors. <i>Microporous and Mesoporous Materials</i> , <b>2021</b> , 319, 111063	5.3	4

48	Photocatalytic Recyclers for Purification and Disinfection of Indoor Air in Medical Institutions. <i>Bio-Medical Engineering</i> , <b>2016</b> , 49, 389-393	0.5	4
47	Obtainment and Comparative Study of Electrochemical Behavior of Composite Electrodes Based on Polyaniline and Its N-Substituted Derivatives. <i>Polymer Science - Series B</i> , <b>2018</b> , 60, 780-788	0.8	4
46	One-step plasma electrochemical synthesis and oxygen electrocatalysis of nanocomposite of few-layer graphene structures with cobalt oxides. <i>Materials Today Energy</i> , <b>2020</b> , 17, 100459	7	3
45	Nanocatalysts for photocatalytic air purification systems. <i>Russian Chemical Bulletin</i> , <b>2017</b> , 66, 648-651	1.7	3
44	The characteristics of BiOCl/Plaster of Paris composites and their photocatalytic performance under visible light illumination for self-cleaning. <i>Materials Science for Energy Technologies</i> , <b>2020</b> , 3, 299-307	5.2	3
43	Superhydrophobic Aerogel of Polytetrafluoroethylene/Graphene Oxide Composite. <i>High Energy Chemistry</i> , <b>2019</b> , 53, 407-412	0.9	2
42	Changes in the composition and properties of graphene oxide films under monochromatic vacuum UV radiation. <i>High Energy Chemistry</i> , <b>2018</b> , 52, 14-18	0.9	2
41	X-Ray Photoelectron Spectra of TbB66. <i>Inorganic Materials</i> , <b>2018</b> , 54, 45-48	0.9	2
40	Low-Temperature Oxidation of Carbon Monoxide: The Synthesis and Properties of a Catalyst Based on Titanium Dioxide, Nanodiamond, and Palladium for CO Oxidation. <i>Kinetics and Catalysis</i> , <b>2018</b> , 59, 174-178	1.5	2
39	Thermally stimulated transformations in brookite-containing TiO <sub>2</sub> nanopowders produced by the hydrolysis of TiCl <sub>4</sub> . <i>Technical Physics</i> , <b>2011</b> , 56, 97-101	0.5	2
38	The Concentration of C() Atoms and Properties of an Activated Carbon with over 3000 m/g BET Surface Area. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	2
37	Effect of Low-Temperature Heating on the Properties of Graphene Oxide Aerogel. <i>High Energy Chemistry</i> , <b>2018</b> , 52, 355-359	0.9	2
36	Synthesis and Properties of a Carbon Monoxide Oxidation Catalyst Based on Platinum and Plasma-Chemical Titanium Nitride. <i>High Energy Chemistry</i> , <b>2019</b> , 53, 400-406	0.9	1
35	Mechanical Properties of Films of Graphene Oxide Doped with Chitosan. <i>Russian Journal of Physical Chemistry A</i> , <b>2019</b> , 93, 538-541	0.7	1
34	Chemically Modified Electrode Based on Polytriphenylamine Derivative Applied to Graphite Foil. <i>Russian Journal of Electrochemistry</i> , <b>2019</b> , 55, 215-221	1.2	1
33	Surface State of Catalysts of CO Oxidation, Obtained by Depositing Platinum on Powder of Plasma-Chemical Titanium Nitride. <i>Russian Journal of Physical Chemistry A</i> , <b>2020</b> , 94, 538-543	0.7	1
32	Prospects for Using Photocatalytic Air Cleaning Technology to Provide Safety of Sevoflurane Application to Parturition Anesthesia in Obstetric Hospitals. <i>High Energy Chemistry</i> , <b>2018</b> , 52, 360-363	0.9	1
31	Synthesis of Titanium Dioxide Nanopowder via Oxidative Hydrolysis of Titanium Nitride. <i>Inorganic Materials</i> , <b>2019</b> , 55, 337-343	0.9	1

30	Research of photocatalytic degradation of HeLa cells at the TiO <sub>2</sub> interface by ATR-FTIR and fluorescence microscopy. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2011</b> , 217, 425-429	4.7	1
29	A technique for assessment of the photocatalytic properties of plasmochemically synthesized crystalline TiO <sub>2</sub> nanopowders. <i>Russian Journal of Applied Chemistry</i> , <b>2010</b> , 83, 583-587	0.8	1
28	Peculiarities of Electrosynthesis of Polyaniline Coating on Activated Graphite Foil. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , <b>2020</b> , 56, 944-950	0.9	1
27	Raman Spectra of Composite Aerogels of Polytetrafluoroethylene and Graphene Oxide. <i>Russian Journal of Physical Chemistry A</i> , <b>2020</b> , 94, 2250-2254	0.7	1
26	The Effect of Carbon Substrate Morphology on the Electrochemical Performance of Electroactive Composite Coatings Based on Poly(3,6-di(3-aminophenylene)amino-2,5-dichloro-1,4-benzoquinone). <i>Protection of Metals and Physical Chemistry of Surfaces</i> , <b>2020</b> , 56, 493-504	0.9	1
25	Reduced Graphene Oxide Aerogel inside Melamine Sponge as an Electrocatalyst for the Oxygen Reduction Reaction. <i>Materials</i> , <b>2021</b> , 14,	3.5	1
24	Electrochemical Polymerization of Diphenylamine-2-Carboxylic Acid on Glassy Carbon and Activated Graphite Foil. <i>Polymer Science - Series B</i> , <b>2021</b> , 63, 392-403	0.8	1
23	Formation of wear-resistant graphite/diamond-like carbon nanocomposite coatings on Ti using accelerated C60-ions. <i>Surface and Coatings Technology</i> , <b>2021</b> , 424, 127670	4.4	1
22	Influence of treatment with hydrazine and subsequent annealing on the composition and thermophysical properties of polytetrafluoroethylene/graphene oxide composite aerogel. <i>Applied Physics A: Materials Science and Processing</i> , <b>2021</b> , 127, 1	2.6	0
21	Graphene-Based Aerogels Possessing Superhydrophilic and Superhydrophobic Properties and Their Application for Electroreduction of Molecular Oxygen. <i>Colloid Journal</i> , <b>2021</b> , 83, 284-293	1.1	0
20	Synthesis and Properties of a Carbon Monoxide Oxidation Catalyst Based on Plasma-Chemical Titanium Carbonitride, Titanium Dioxide, and Palladium. <i>High Energy Chemistry</i> , <b>2021</b> , 55, 75-79	0.9	0
19	Nitrogen-enriched carbon powder prepared by ball-milling of graphene oxide with melamine: an efficient electrocatalyst for oxygen reduction reaction. <i>Mendeleev Communications</i> , <b>2021</b> , 31, 529-531	1.9	0
18	Features and Consequences of Isopropanol Burning off PTFE-rGO Aerogels. <i>Langmuir</i> , <b>2021</b> , 37, 10233-10240	1.2	0
17	Self-discharge of a supercapacitor with electrodes based on activated carbon cloth. <i>Journal of Electroanalytical Chemistry</i> , <b>2022</b> , 910, 116198	4.1	0
16	Composite formed upon the ultrasonication of an aqueous suspension of graphite oxide/titanium dioxide. <i>Russian Journal of Physical Chemistry A</i> , <b>2017</b> , 91, 189-194	0.7	
15	Carbon and carbon-silicon carbide nanocomposites with inverse opal structure. <i>Russian Journal of General Chemistry</i> , <b>2013</b> , 83, 2167-2172	0.7	
14	2D-printing ink based on ultrasound exfoliated graphite. <i>Technical Physics Letters</i> , <b>2017</b> , 43, 274-278	0.7	
13	Polyaniline/MnO <sub>2</sub> Composite Electrode for Electrochemical Supercapacitor. <i>Russian Journal of Electrochemistry</i> , <b>2021</b> , 57, 996-1007	1.2	

12	Hydrophobization of Melamine Sponges Using Radiation-Synthesized Tetrafluoroethylene Telomers. <i>High Energy Chemistry</i> , <b>2021</b> , 55, 488-494	0.9
11	 <i>Technical Physics Letters</i> , <b>2017</b> , 43, 84	0
10	Synthesis and Electrochemical Behavior of Composite Materials Based on Polyaniline and Manganese Compounds on Activated Graphite Foil. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , <b>2021</b> , 57, 500-506	0.9
9	Formation of new hybrid structures: Fullerene C60-amphiphilic copolymer of N-vinylpyrrolidone with (di)methacrylates in isopropyl alcohol. <i>Polymer Science - Series A</i> , <b>2016</b> , 58, 667-675	1.2
8	Synthesis and properties of Pt/TiN catalyst for low-temperature air purification from carbon monoxide. <i>Journal of Advanced Materials and Technologies</i> , <b>2021</b> , 6, 131-143	
7	Synthesis and properties of nanomaterial based catalyst for air purifiers. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 1134, 012067	0.3
6	Photoinduced Oxidation of Water with Potassium Persulfate in the Presence of Ruthenium Trinuclear Complex. <i>High Energy Chemistry</i> , <b>2018</b> , 52, 373-377	0.9
5	Photooxidative Resistance of Polytetrafluoroethylene-Graphene Nanocomposites to Vacuum Ultraviolet Radiation. <i>High Energy Chemistry</i> , <b>2021</b> , 55, 280-284	0.9
4	New Hydrophobic Materials Based on Radiation-Synthesized Telomers of Tetrafluoroethylene and Melamine Sponge. <i>Russian Journal of General Chemistry</i> , <b>2022</b> , 92, 518-525	0.7
3	Influence of High-Energy C60 Ions on the Structure and Bonds of Carbon Coatings. <i>Journal of Surface Investigation</i> , <b>2021</b> , 15, S112-S119	0.5
2	Effect of Tetrafluoroethylene Concentration on Thermophysical Characteristics and Structure of Products of Its Radiation Telomerization in Flutec PP3. <i>High Energy Chemistry</i> , <b>2022</b> , 56, 184-189	0.9
1	Electrochemical Synthesis of Coatings Based on Polydiphenylamine-2-carboxylic Acid on Anodized Graphite Foil Modified by Graphene Nanosheets and Manganese Oxides. <i>Russian Journal of Electrochemistry</i> , <b>2022</b> , 58, 398-410	1.2