Eugene N Kabachkov

List of Publications by Year in Descending Order

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	New Hydrophobic Materials Based on Radiation-Synthesized Telomeres of Tetrafluoroethylene and Melamine Sponge. *Russian Journal of General Chemistry*, **2022**, 92, 518-525	0.7	
82	Self-discharge of a supercapacitor with electrodes based on activated carbon cloth. *Journal of Electroanalytical Chemistry*, **2022**, 910, 116198	4.1	0
81	Effect of Tetrafluoroethylene Concentration on Thermophysical Characteristics and Structure of Products of Its Radiation Telomerization in Flutec PP3. *High Energy Chemistry*, **2022**, 56, 184-189	0.9	
80	Electrochemical Synthesis of Coatings Based on Polydiphenylamine-2-carboxylic Acid on Anodized Graphite Foil Modified by Graphene Nanosheets and Manganese Oxides. *Russian Journal of Electrochemistry*, **2022**, 58, 398-410	1.2	
79	Polyaniline–MnO2 Composite Electrode for Electrochemical Supercapacitor. *Russian Journal of Electrochemistry*, **2021**, 57, 996-1007	1.2	
78	Hydrophobization of Melamine Sponges Using Radiation-Synthesized Tetrafluoroethylene Telomers. *High Energy Chemistry*, **2021**, 55, 488-494	0.9	
77	Synthesis and Electrochemical Behavior of Composite Materials Based on Polyaniline and Manganese Compounds on Activated Graphite Foil. *Protection of Metals and Physical Chemistry of Surfaces*, **2021**, 57, 500-506	0.9	
76	The Concentration of C() Atoms and Properties of an Activated Carbon with over 3000 m/g BET Surface Area. *Nanomaterials*, **2021**, 11,	5.4	2
75	Influence of treatment with hydrazine and subsequent annealing on the composition and thermophysical properties of polytetrafluoroethylene–graphene oxide composite aerogel. *Applied Physics A: Materials Science and Processing*, **2021**, 127, 1	2.6	0
74	Carbon material with high specific surface area and high pseudocapacitance: Possible application in supercapacitors. *Microporous and Mesoporous Materials*, **2021**, 319, 111063	5.3	4
73	Graphene-Based Aerogels Possessing Superhydrophilic and Superhydrophobic Properties and Their Application for Electroreduction of Molecular Oxygen. *Colloid Journal*, **2021**, 83, 284-293	1.1	0
72	Reduced Graphene Oxide Aerogel inside Melamine Sponge as an Electrocatalyst for the Oxygen Reduction Reaction. *Materials*, **2021**, 14,	3.5	1
71	Synthesis and properties of Pt/TiN catalyst for low-temperature air purification from carbon monoxide. *Journal of Advanced Materials and Technologies*, **2021**, 6, 131-143		
70	Synthesis and Properties of a Carbon Monoxide Oxidation Catalyst Based on Plasma-Chemical Titanium Carbonitride, Titanium Dioxide, and Palladium. *High Energy Chemistry*, **2021**, 55, 75-79	0.9	0
69	Nitrogen-enriched carbon powder prepared by ball-milling of graphene oxide with melamine: an efficient electrocatalyst for oxygen reduction reaction. *Mendeleev Communications*, **2021**, 31, 529-531	1.9	0
68	Electrochemical Polymerization of Diphenylamine-2-Carboxylic Acid on Glassy Carbon and Activated Graphite Foil. *Polymer Science - Series B*, **2021**, 63, 392-403	0.8	1
67	Photooxidative Resistance of Polytetrafluoroethylene–Graphene Nanocomposites to Vacuum Ultraviolet Radiation. *High Energy Chemistry*, **2021**, 55, 280-284	0.9	

66	Features and Consequences of Isopropanol Burning off PTFE-rGO Aerogels. *Langmuir*, **2021**, 37, 10233-10240	4	0
65	Formation of wear-resistant graphite/diamond-like carbon nanocomposite coatings on Ti using accelerated C60-ions. *Surface and Coatings Technology*, **2021**, 424, 127670	4.4	1
64	Influence of High-Energy C60 Ions on the Structure and Bonds of Carbon Coatings. *Journal of Surface Investigation*, **2021**, 15, S112-S119	0.5	
63	Surface State of Catalysts of CO Oxidation, Obtained by Depositing Platinum on Powder of Plasma-Chemical Titanium Nitride. *Russian Journal of Physical Chemistry A*, **2020**, 94, 538-543	0.7	1
62	PTFE/rGO Aerogels with Both Superhydrophobic and Superhydrophilic Properties for Electroreduction of Molecular Oxygen. *Energy & Fuels*, **2020**, 34, 7573-7581	4.1	5
61	One-step plasma electrochemical synthesis and oxygen electrocatalysis of nanocomposite of few-layer graphene structures with cobalt oxides. *Materials Today Energy*, **2020**, 17, 100459	7	3
60	Preparation and Characterization of a Flexible rGO-PTFE Film for a Supercapacitor Current Collector. *Langmuir*, **2020**, 36, 8680-8686	4	5
59	Electrochemical synthesis of composite based on polyaniline and activated IR pyrolyzed polyacrylonitrile on graphite foil electrode for enhanced supercapacitor properties. *Electrochimica Acta*, **2020**, 354, 136671	6.7	6
58	Peculiarities of Electrosynthesis of Polyaniline Coating on Activated Graphite Foil. *Protection of Metals and Physical Chemistry of Surfaces*, **2020**, 56, 944-950	0.9	1
57	The characteristics of BiOCl/Plaster of Paris composites and their photocatalytic performance under visible light illumination for self-cleaning. *Materials Science for Energy Technologies*, **2020**, 3, 299-307	5.2	3
56	Raman Spectra of Composite Aerogels of Polytetrafluoroethylene and Graphene Oxide. *Russian Journal of Physical Chemistry A*, **2020**, 94, 2250-2254	0.7	1
55	Heteroatom necklaces of sp2 amorphous carbons. XPS supported INS and DRIFT spectroscopy. *Fullerenes Nanotubes and Carbon Nanostructures*, **2020**, 28, 1010-1029	1.8	5
54	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). *Protection of Metals and Physical Chemistry of Surfaces*, **2020**, 56, 493-504	0.9	1
53	Superhydrophobic Aerogel of Polytetrafluoroethylene/Graphene Oxide Composite. *High Energy Chemistry*, **2019**, 53, 407-412	0.9	2
52	Synthesis and Properties of a Carbon Monoxide Oxidation Catalyst Based on Platinum and Plasma-Chemical Titanium Nitride. *High Energy Chemistry*, **2019**, 53, 400-406	0.9	1
51	sp amorphous carbons in view of multianalytical consideration: Normal, expe□ed and new. *Journal of Non-Crystalline Solids*, **2019**, 524, 119608	3.9	13
50	The Effect of Supports of Glassy□arbon and Activated Graphite Foil on the Electrochemical Behavior of Composite Coatings Based on Polyaniline and Its N-Substituted Derivatives. *Russian Journal of Electrochemistry*, **2019**, 55, 745-755	1.2	5
49	Mechanical Properties of Films of Graphene Oxide Doped with Chitosan. *Russian Journal of Physical Chemistry A*, **2019**, 93, 538-541	0.7	1

48	Doping Graphene Oxide Aerogel with Nitrogen during Reduction with Hydrazine and Low Temperature Annealing in Air. *Russian Journal of Physical Chemistry A*, **2019**, 93, 296-300	0.7	4
47	Characterisation and electrical conductivity of polytetrafluoroethylene/graphite nanoplatelets composite films. *Applied Physics A: Materials Science and Processing*, **2019**, 125, 1	2.6	8
46	Chemically Modified Electrode Based on Polytriphenylamine Derivative Applied to Graphite Foil. *Russian Journal of Electrochemistry*, **2019**, 55, 215-221	1.2	1
45	New Approach to Creating Superhydrophobic Surfaces. *High Energy Chemistry*, **2019**, 53, 47-49	0.9	5
44	Impact of remnant surface polarization on photocatalytic and antibacterial performance of BaTiO3. *Journal of the European Ceramic Society*, **2019**, 39, 2915-2922	6	35
43	Novel Superhydrophobic Aerogel on the Base of Polytetrafluoroethylene. *ACS Applied Materials & Interfaces*, **2019**, 11, 32517-32522	9.5	14
42	Synthesis of Titanium Dioxide Nanopowder via Oxidative Hydrolysis of Titanium Nitride. *Inorganic Materials*, **2019**, 55, 337-343	0.9	1
41	Hydrophilic and hydrophobic pores in reduced graphene oxide aerogel. *Journal of Porous Materials*, **2019**, 26, 1111-1119	2.4	11
40	Changes in the composition and properties of graphene oxide films under monochromatic vacuum UV radiation. *High Energy Chemistry*, **2018**, 52, 14-18	0.9	2
39	Synthesis and properties of a CO oxidation catalyst based on plasma-chemical silicon carbide, titanium dioxide, and palladium. *High Energy Chemistry*, **2018**, 52, 90-94	0.9	6
38	X-Ray Photoelectron Spectra of TbB66. *Inorganic Materials*, **2018**, 54, 45-48	0.9	2
37	Preparation of graphene oxide-humic acid composite-based ink for printing thin film electrodes for micro-supercapacitors. *Journal of Alloys and Compounds*, **2018**, 730, 88-95	5.7	22
36	Properties of a granulated nitrogen-doped graphene oxide aerogel. *Journal of Non-Crystalline Solids*, **2018**, 498, 236-243	3.9	9
35	Correlation of Surface Area with Photocatalytic Activity of TiO2. *Journal of Advanced Oxidation Technologies*, **2018**, 21, 127-137		17
34	Prospects for Using Photocatalytic Air Cleaning Technology to Provide Safety of Sevoflurane Application to Parturition Anesthesia in Obstetric Hospitals. *High Energy Chemistry*, **2018**, 52, 360-363	0.9	1
33	Low-Temperature Oxidation of Carbon Monoxide: The Synthesis and Properties of a Catalyst Based on Titanium Dioxide, Nanodiamond, and Palladium for CO Oxidation. *Kinetics and Catalysis*, **2018**, 59, 174-178	1.5	2
32	Synthesis and properties of nanomaterial based catalyst for air purifiers. *Journal of Physics: Conference Series*, **2018**, 1134, 012067	0.3	
31	Comparative Study of Graphite and the Products of Its Electrochemical Exfoliation. *Russian Journal of Electrochemistry*, **2018**, 54, 825-834	1.2	6

30	Obtainment and Comparative Study of Electrochemical Behavior of Composite Electrodes Based on Polyaniline and Its N-Substituted Derivatives. *Polymer Science - Series B*, **2018**, 60, 780-788	0.8	4
29	Photoinduced Oxidation of Water with Potassium Persulfate in the Presence of Ruthenium Trinuclear Complex. *High Energy Chemistry*, **2018**, 52, 373-377	0.9	
28	Effect of Low-Temperature Heating on the Properties of Graphene Oxide Aerogel. *High Energy Chemistry*, **2018**, 52, 355-359	0.9	2
27	Synthesis and properties of a platinum catalyst supported on plasma chemical silicon carbide. *High Energy Chemistry*, **2017**, 51, 46-50	0.9	9
26	Composite formed upon the ultrasonication of an aqueous suspension of graphite oxide–titanium dioxide. *Russian Journal of Physical Chemistry A*, **2017**, 91, 189-194	0.7	
25	Nanocatalysts for photocatalytic air purification systems. *Russian Chemical Bulletin*, **2017**, 66, 648-651	1.7	3
24	2D-printing ink based on ultrasound exfoliated graphite. *Technical Physics Letters*, **2017**, 43, 274-278	0.7	
23	2D- *Technical Physics Letters*, **2017**, 43, 84	0	
22	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. *Colloid and Polymer Science*, **2016**, 294, 2087-2097	2.4	6
21	Oxidation behavior of TiB2 micro- and nanoparticles. *Inorganic Materials*, **2016**, 52, 686-693	0.9	14
20	Photocatalytic Recyclers for Purification and Disinfection of Indoor Air in Medical Institutions. *Bio-Medical Engineering*, **2016**, 49, 389-393	0.5	4
19	Formation of new hybrid structures: Fullerene C60–amphiphilic copolymer of N-vinylpyrrolidone with (di)methacrylates in isopropyl alcohol. *Polymer Science - Series A*, **2016**, 58, 667-675	1.2	
18	Introduction of peroxo groups into titania: preparation, characterization and properties of the new peroxo-containing phase. *CrystEngComm*, **2015**, 17, 7113-7123	3.3	12
17	Air purification equipment combining a filter coated by silver nanoparticles with a nano-TiO 2 photocatalyst for use in hospitals. *Advances in Natural Sciences: Nanoscience and Nanotechnology*, **2015**, 6, 015016	1.6	21
16	Exchange of cysteamine, thiol ligand in binuclear cationic tetranitrosyl iron complex, for glutathione. *RSC Advances*, **2014**, 4, 24560-24565	3.7	7
15	Photocatalytic equipment with nitrogen-doped titanium dioxide for air cleaning and disinfecting. *Advances in Natural Sciences: Nanoscience and Nanotechnology*, **2014**, 5, 015017	1.6	6
14	Synthesis and characterization of C60-based composites of amphiphilic N-vinylpyrrolidone/triethylene glycol dimethacrylate copolymers. *Polymer Composites*, **2014**, 35, 1362-1371	1.3	8
13	Reversible dissociation and ligand-glutathione exchange reaction in binuclear cationic tetranitrosyl iron complex with penicillamine. *Bioinorganic Chemistry and Applications*, **2014**, 2014, 641407	4.2	7

12	Polymorphic transformations in nanostructured anatase (TiO2) under high-pressure shock compression. *Technical Physics*, **2013**, 58, 1029-1033	0.5	11
11	Carbon and carbon-silicon carbide nanocomposites with inverse opal structure. *Russian Journal of General Chemistry*, **2013**, 83, 2167-2172	0.7	
10	Microporous and mesoporous carbon nanostructures with the inverse opal lattice. *Physics of the Solid State*, **2013**, 55, 1105-1110	0.8	7
9	Adsorption of lanthanides(III), uranium(VI) and thorium(IV) from nitric acid solutions by carbon inverse opals modified with tetraphenylmethylenediphospine dioxide. *Journal of Colloid and Interface Science*, **2013**, 405, 183-8	9.3	16
8	Structure of metallic nanowires and nanoclusters formed in superfluid helium. *Journal of Experimental and Theoretical Physics*, **2011**, 112, 1061-1070	1	44
7	Thermally stimulated transformations in brookite-containing TiO2 nanopowders produced by the hydrolysis of TiCl4. *Technical Physics*, **2011**, 56, 97-101	0.5	2
6	Research of photocatalytic degradation of HeLa cells at the TiO2 interface by ATR-FTIR and fluorescence microscopy. *Journal of Photochemistry and Photobiology A: Chemistry*, **2011**, 217, 425-429	4.7	1
5	Fourier transform infrared spectroscopic study of the photocatalytic degradation of cancerous cells on titanium dioxide. *High Energy Chemistry*, **2010**, 44, 426-430	0.9	5
4	SiC/C nanocomposites with inverse opal structure. *Nanotechnology*, **2010**, 21, 475604	3.4	5
3	Correlation between the E g (1) oscillation frequency and half-width of the (101) peak in the X-ray diffraction pattern of TiO2 anatase nanoparticles. *Technical Physics*, **2010**, 55, 141-143	0.5	6
2	Phase transformations in nanostructural anatase TiO2 under shock compression conditions studied by Raman spectroscopy. *Technical Physics Letters*, **2010**, 36, 841-843	0.7	15
1	A technique for assessment of the photocatalytic properties of plasmochemically synthesized crystalline TiO2 nanopowders. *Russian Journal of Applied Chemistry*, **2010**, 83, 583-587	0.8	1