

# Eugene N Kabachkov

## List of Publications by Year in descending order

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85  
papers

683  
citations

686830

13  
h-index

676716

22  
g-index

94  
all docs

94  
docs citations

94  
times ranked

689  
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of remnant surface polarization on photocatalytic and antibacterial performance of BaTiO <sub>3</sub> . Journal of the European Ceramic Society, 2019, 39, 2915-2922.	2.8	58
2	Structure of metallic nanowires and nanoclusters formed in superfluid helium. Journal of Experimental and Theoretical Physics, 2011, 112, 1061-1070.	0.2	48
3	Air purification equipment combining a filter coated by silver nanoparticles with a nano-TiO <sub>2</sub> photocatalyst for use in hospitals. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2015, 6, 015016.	0.7	34
4	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.	2.8	31
5	sp amorphous carbons in view of multianalytical consideration: Normal, expanded and new. Journal of Non-Crystalline Solids, 2019, 524, 119608.	1.5	29
6	Novel Superhydrophobic Aerogel on the Base of Polytetrafluoroethylene. ACS Applied Materials & Interfaces, 2019, 11, 32517-32522.	4.0	26
7	Oxidation behavior of TiB <sub>2</sub> micro- and nanoparticles. Inorganic Materials, 2016, 52, 686-693.	0.2	24
8	Correlation of Surface Area with Photocatalytic Activity of TiO <sub>2</sub> . Journal of Advanced Oxidation Technologies, 2018, 21, 127-137.	0.5	23
9	Adsorption of lanthanides(III), uranium(VI) and thorium(IV) from nitric acid solutions by carbon inverse opals modified with tetraphenylmethylenediphosphine dioxide. Journal of Colloid and Interface Science, 2013, 405, 183-188.	5.0	18
10	Phase transformations in nanostructural anatase TiO <sub>2</sub> under shock compression conditions studied by Raman spectroscopy. Technical Physics Letters, 2010, 36, 841-843.	0.2	17
11	Hydrophilic and hydrophobic pores in reduced graphene oxide aerogel. Journal of Porous Materials, 2019, 26, 1111-1119.	1.3	16
12	Carbon material with high specific surface area and high pseudocapacitance: Possible application in supercapacitors. Microporous and Mesoporous Materials, 2021, 319, 111063.	2.2	15
13	A Facile Synthesis of Noble-Metal-Free Catalyst Based on Nitrogen Doped Graphene Oxide for Oxygen Reduction Reaction. Materials, 2022, 15, 821.	1.3	14
14	Synthesis and properties of a platinum catalyst supported on plasma chemical silicon carbide. High Energy Chemistry, 2017, 51, 46-50.	0.2	13
15	Properties of a granulated nitrogen-doped graphene oxide aerogel. Journal of Non-Crystalline Solids, 2018, 498, 236-243.	1.5	13
16	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.	2.6	13
17	Introduction of peroxy groups into titania: preparation, characterization and properties of the new peroxy-containing phase. CrystEngComm, 2015, 17, 7113-7123.	1.3	12
18	Characterisation and electrical conductivity of polytetrafluoroethylene/graphite nanoplatelets composite films. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	1.1	12

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19	Polymorphic transformations in nanostructured anatase (TiO <sub>2</sub> ) under high-pressure shock compression. <i>Technical Physics</i> , 2013, 58, 1029-1033.	0.2	11
20	Reversible Dissociation and Ligand-Glutathione Exchange Reaction in Binuclear Cationic Tetranitrosyl Iron Complex with Penicillamine. <i>Bioinorganic Chemistry and Applications</i> , 2014, 2014, 1-9.	1.8	11
21	The Concentration of C(sp <sup>3</sup> ) Atoms and Properties of an Activated Carbon with over 3000 m <sup>2</sup> /g BET Surface Area. <i>Nanomaterials</i> , 2021, 11, 1324.	1.9	11
22	Photocatalytic equipment with nitrogen-doped titanium dioxide for air cleaning and disinfecting. <i>Advances in Natural Sciences: Nanoscience and Nanotechnology</i> , 2014, 5, 015017.	0.7	10
23	Exchange of cysteamine, thiol ligand in binuclear cationic tetranitrosyl iron complex, for glutathione. <i>RSC Advances</i> , 2014, 4, 24560-24565.	1.7	10
24	Comparative Study of Graphite and the Products of Its Electrochemical Exfoliation. <i>Russian Journal of Electrochemistry</i> , 2018, 54, 825-834.	0.3	10
25	PTFE/rGO Aerogels with Both Superhydrophobic and Superhydrophilic Properties for Electroreduction of Molecular Oxygen. <i>Energy &amp; Fuels</i> , 2020, 34, 7573-7581.	2.5	10
26	Microporous and mesoporous carbon nanostructures with the inverse opal lattice. <i>Physics of the Solid State</i> , 2013, 55, 1105-1110.	0.2	8
27	Synthesis and characterization of C <sub>60</sub> -based composites of amphiphilic N-vinylpyrrolidone/triethylene glycol dimethacrylate copolymers. <i>Polymer Composites</i> , 2014, 35, 1362-1371.	2.3	8
28	Heteroatom necklaces of sp <sup>2</sup> amorphous carbons. XPS supported INS and DRIFT spectroscopy. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2020, 28, 1010-1029.	1.0	8
29	One-step plasma electrochemical synthesis and oxygen electrocatalysis of nanocomposite of few-layer graphene structures with cobalt oxides. <i>Materials Today Energy</i> , 2020, 17, 100459.	2.5	8
30	Preparation and Characterization of a Flexible rGO-PTFE Film for a Supercapacitor Current Collector. <i>Langmuir</i> , 2020, 36, 8680-8686.	1.6	8
31	Correlation between the E <sub>g</sub> (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> , 2010, 55, 141-143.	0.2	7
32	Synthesis and properties of a CO oxidation catalyst based on plasma-chemical silicon carbide, titanium dioxide, and palladium. <i>High Energy Chemistry</i> , 2018, 52, 90-94.	0.2	7
33	Doping Graphene Oxide Aerogel with Nitrogen during Reduction with Hydrazine and Low Temperature Annealing in Air. <i>Russian Journal of Physical Chemistry A</i> , 2019, 93, 296-300.	0.1	7
34	New Approach to Creating Superhydrophobic Surfaces. <i>High Energy Chemistry</i> , 2019, 53, 47-49.	0.2	7
35	Fourier transform infrared spectroscopic study of the photocatalytic degradation of cancerous cells on titanium dioxide. <i>High Energy Chemistry</i> , 2010, 44, 426-430.	0.2	6
36	The features of the formation of the hybrid nanostructures of C <sub>60</sub> fullerene and amphiphilic copolymer of N-vinylpyrrolidone with (di)methacrylates in isopropyl alcohol and its mixtures with water. <i>Colloid and Polymer Science</i> , 2016, 294, 2087-2097.	1.0	6

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37	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> , 2020, 3, 299-307.	1.0	6
38	Formation of wear-resistant graphite/diamond-like carbon nanocomposite coatings on Ti using accelerated C60-ions. <i>Surface and Coatings Technology</i> , 2021, 424, 127670.	2.2	6
39	SiC/C nanocomposites with inverse opal structure. <i>Nanotechnology</i> , 2010, 21, 475604.	1.3	5
40	Thermally stimulated transformations in brookite-containing TiO <sub>2</sub> nanopowders produced by the hydrolysis of TiCl <sub>4</sub> . <i>Technical Physics</i> , 2011, 56, 97-101.	0.2	5
41	Changes in the composition and properties of graphene oxide films under monochromatic vacuum UV radiation. <i>High Energy Chemistry</i> , 2018, 52, 14-18.	0.2	5
42	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> , 2019, 55, 745-755.	0.3	5
43	Raman Spectra of Composite Aerogels of Polytetrafluoroethylene and Graphene Oxide. <i>Russian Journal of Physical Chemistry A</i> , 2020, 94, 2250-2254.	0.1	5
44	Reduced Graphene Oxide Aerogel inside Melamine Sponge as an Electrocatalyst for the Oxygen Reduction Reaction. <i>Materials</i> , 2021, 14, 322.	1.3	5
45	Graphene-Based Aerogels Possessing Superhydrophilic and Superhydrophobic Properties and Their Application for Electroreduction of Molecular Oxygen. <i>Colloid Journal</i> , 2021, 83, 284-293.	0.5	5
46	Nitrogen-enriched carbon powder prepared by ball-milling of graphene oxide with melamine: an efficient electrocatalyst for oxygen reduction reaction. <i>Mendeleev Communications</i> , 2021, 31, 529-531.	0.6	5
47	Self-discharge of a supercapacitor with electrodes based on activated carbon cloth. <i>Journal of Electroanalytical Chemistry</i> , 2022, 910, 116198.	1.9	5
48	Photocatalytic Recyclers for Purification and Disinfection of Indoor Air in Medical Institutions. <i>Bio-Medical Engineering</i> , 2016, 49, 389-393.	0.3	4
49	Nanocatalysts for photocatalytic air purification systems. <i>Russian Chemical Bulletin</i> , 2017, 66, 648-651.	0.4	4
50	Obtainment and Comparative Study of Electrochemical Behavior of Composite Electrodes Based on Polyaniline and Its N-Substituted Derivatives. <i>Polymer Science - Series B</i> , 2018, 60, 780-788.	0.3	4
51	Transfer- and lithography-free CVD of N-doped graphenic carbon thin films on non-metal substrates. <i>Materials Research Bulletin</i> , 2022, 154, 111943.	2.7	4
52	Effect of Low-Temperature Heating on the Properties of Graphene Oxide Aerogel. <i>High Energy Chemistry</i> , 2018, 52, 355-359.	0.2	3
53	Superhydrophobic Aerogel of Polytetrafluoroethylene/Graphene Oxide Composite. <i>High Energy Chemistry</i> , 2019, 53, 407-412.	0.2	3
54	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> , 2021, 127, 1.	1.1	3

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55	Electrochemical Polymerization of Diphenylamine-2-Carboxylic Acid on Glassy Carbon and Activated Graphite Foil. <i>Polymer Science - Series B</i> , 2021, 63, 392-403.	0.3	3
56	Electrochemical Improvement of the MWCNT/Al Electrodes for Supercapacitors. <i>Materials</i> , 2021, 14, 7612.	1.3	3
57	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> , 2011, 217, 425-429.	2.0	2
58	X-Ray Photoelectron Spectra of TbB66. <i>Inorganic Materials</i> , 2018, 54, 45-48.	0.2	2
59	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> , 2018, 59, 174-178.	0.3	2
60	Synthesis of Titanium Dioxide Nanopowder via Oxidative Hydrolysis of Titanium Nitride. <i>Inorganic Materials</i> , 2019, 55, 337-343.	0.2	2
61	Mechanical Properties of Films of Graphene Oxide Doped with Chitosan. <i>Russian Journal of Physical Chemistry A</i> , 2019, 93, 538-541.	0.1	2
62	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> , 2020, 94, 538-543.	0.1	2
63	Synthesis and Properties of a Carbon Monoxide Oxidation Catalyst Based on Plasma-Chemical Titanium Carbonitride, Titanium Dioxide, and Palladium. <i>High Energy Chemistry</i> , 2021, 55, 75-79.	0.2	2
64	Peculiarities of Electrosynthesis of Polyaniline Coating on Activated Graphite Foil. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2020, 56, 944-950.	0.3	2
65	A technique for assessment of the photocatalytic properties of plasmochemically synthesized crystalline TiO <sub>2</sub> nanopowders. <i>Russian Journal of Applied Chemistry</i> , 2010, 83, 583-587.	0.1	1
66	Formation of new hybrid structures: Fullerene C <sub>60</sub> –amphiphilic copolymer of N-vinylpyrrolidone with (di)methacrylates in isopropyl alcohol. <i>Polymer Science - Series A</i> , 2016, 58, 667-675.	0.4	1
67	Prospects for Using Photocatalytic Air Cleaning Technology to Provide Safety of Sevoflurane Application to Parturition Anesthesia in Obstetric Hospitals. <i>High Energy Chemistry</i> , 2018, 52, 360-363.	0.2	1
68	Synthesis and Properties of a Carbon Monoxide Oxidation Catalyst Based on Platinum and Plasma-Chemical Titanium Nitride. <i>High Energy Chemistry</i> , 2019, 53, 400-406.	0.2	1
69	Chemically Modified Electrode Based on Polytriphenylamine Derivative Applied to Graphite Foil. <i>Russian Journal of Electrochemistry</i> , 2019, 55, 215-221.	0.3	1
70	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> , 2020, 56, 493-504.	0.3	1
71	Synthesis and properties of Pt/TiN catalyst for low-temperature air purification from carbon monoxide. <i>Journal of Advanced Materials and Technologies</i> , 2021, 6, 131-143.	0.2	1
72	Features and Consequences of Isopropanol Burning off PTFE–rGO Aerogels. <i>Langmuir</i> , 2021, 37, 10233-10240.	1.6	1

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73	Hydrophobization of Melamine Sponges Using Radiation-Synthesized Tetrafluoroethylene Telomers. High Energy Chemistry, 2021, 55, 488-494.	0.2	1
74	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.	0.2	1
75	Carbon and carbon-silicon carbide nanocomposites with inverse opal structure. Russian Journal of General Chemistry, 2013, 83, 2167-2172.	0.3	0
76	Composite formed upon the ultrasonication of an aqueous suspension of graphite oxideâ€“titanium dioxide. Russian Journal of Physical Chemistry A, 2017, 91, 189-194.	0.1	0
77	2D-printing ink based on ultrasound exfoliated graphite. Technical Physics Letters, 2017, 43, 274-278.	0.2	0
78	Synthesis and properties of nanomaterial based catalyst for air purifiers. Journal of Physics: Conference Series, 2018, 1134, 012067.	0.3	0
79	Photoinduced Oxidation of Water with Potassium Persulfate in the Presence of Ruthenium Trinuclear Complex. High Energy Chemistry, 2018, 52, 373-377.	0.2	0
80	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.	0.3	0
81	Photooxidative Resistance of Polytetrafluoroethyleneâ€“Graphene Nanocomposites to Vacuum Ultraviolet Radiation. High Energy Chemistry, 2021, 55, 280-284.	0.2	0
82	Polyanilineâ€“MnO <sub>2</sub> Composite Electrode for Electrochemical Supercapacitor. Russian Journal of Electrochemistry, 2021, 57, 996-1007.	0.3	0
83	New Hydrophobic Materials Based on Radiation-Synthesized Telomers of Tetrafluoroethylene and Melamine Sponge. Russian Journal of General Chemistry, 2022, 92, 518-525.	0.3	0
84	Influence of High-Energy C <sub>60</sub> Ions on the Structure and Bonds of Carbon Coatings. Journal of Surface Investigation, 2021, 15, S112-S119.	0.1	0
85	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.	0.3	0