Alexey A Mikhaylov

List of Publications by Citations

44 papers	906 citations	15 h-index	29 g-index
50 ext. papers	1,032 ext. citations	4.8 avg, IF	3.96 L-index

#	Paper	IF	Citations
44	Nanocrystalline SnS coated onto reduced graphene oxide: demonstrating the feasibility of a non-graphitic anode with sulfide chemistry for potassium-ion batteries. *Chemical Communications*, **2017**, 53, 8272-8275	5.8	164
43	Conversion of Hydroperoxoantimonate Coated Graphenes to Sb2S3@Graphene for a Superior Lithium Battery Anode. *Chemistry of Materials*, **2012**, 24, 4750-4757	9.6	128
42	Nanocrystalline tin disulfide coating of reduced graphene oxide produced by the peroxostannate deposition route for sodium ion battery anodes. *Journal of Materials Chemistry A*, **2014**, 2, 8431	13	104
41	GeO Thin Film Deposition on Graphene Oxide by the Hydrogen Peroxide Route: Evaluation for Lithium-Ion Battery Anode. *ACS Applied Materials & Interfaces*, **2017**, 9, 9152-9160	9.5	39
40	The formation of a peroxoantimonate thin film coating on graphene oxide (GO) and the influence of the GO on its transformation to antimony oxides and elemental antimony. *Carbon*, **2012**, 50, 5463-5471	10.4	39
39	Biocomposite based on reduced graphene oxide film modified with phenothiazone and flavin adenine dinucleotide-dependent glucose dehydrogenase for glucose sensing and biofuel cell applications. *Analytical Chemistry*, **2015**, 87, 9567-71	7.8	37
38	Antimony tin oxide (ATO) nanoparticle formation from H2O2 solutions: a new generic film coating from basic solutions. *Inorganic Chemistry*, **2010**, 49, 9110-2	5.1	37
37	Peroxide induced tin oxide coating of graphene oxide at room temperature and its application for lithium ion batteries. *Nanotechnology*, **2012**, 23, 485601	3.4	36
36	Potassium, Cesium, and Ammonium Peroxogermanates with Inorganic Hexanuclear Peroxo Bridged Germanium Anion Isolated from Aqueous Solution. *Inorganic Chemistry*, **2015**, 54, 8058-65	5.1	28
35	Graphene Oxide-Supported Tin Telluride Composite for Sodium- and Lithium-Ion Battery Anodes. *Energy Technology*, **2018**, 6, 127-133	3.5	26
34	Graphene oxide supported sodium stannate lithium ion battery anodes by the peroxide route: low temperature and no waste processing. *Journal of Materials Chemistry A*, **2015**, 3, 20681-20689	13	25
33	Synthesis of high volumetric capacity graphene oxide-supported tellurantimony Na- and Li-ion battery anodes by hydrogen peroxide sol gel processing. *Journal of Colloid and Interface Science*, **2018**, 512, 165-171	9.3	23
32	Peroxide Coordination of Tellurium in Aqueous Solutions. *Chemistry - A European Journal*, **2016**, 22, 2980-88	4.8	19
31	Vanadium Oxide Thin Film Formation on Graphene Oxide by Microexplosive Decomposition of Ammonium Peroxovanadate and Its Application as a Sodium Ion Battery Anode. *Langmuir*, **2018**, 34, 2741-2747	4	16
30	Probing electrochemical reactivity in an Sb2S3-containing potassium-ion battery anode: observation of an increased capacity. *Journal of Materials Chemistry A*, **2020**, 8, 11424-11434	13	16
29	Brush like polyaniline on vanadium oxide decorated reduced graphene oxide: Efficient electrode materials for supercapacitor. *Journal of Energy Storage*, **2019**, 22, 188-193	7.8	15
28	HO induced formation of graded composition sodium-doped tin dioxide and template-free synthesis of yolk-shell SnO particles and their sensing application. *Dalton Transactions*, **2017**, 46, 16171-16179	4.3	15

27	Antimony and antimony oxide@graphene oxide obtained by the peroxide route as anodes for lithium-ion batteries. *Main Group Metal Chemistry*, **2015**, 38,	1.6	14
26	Effect of metalation-demetalation reactions on the assembly and properties of 2D supramolecular arrays of tetrapyridylporphyrin and its Zn(II)-complex. *Surface Science*, **2017**, 660, 39-46	1.8	11
25	Effect of aluminum vacancies on the H2O2 or H2O interaction with a gamma-AlOOH surface. A solid-state DFT study. *International Journal of Quantum Chemistry*, **2019**, 119, e25920	2.1	11
24	Doubly Coated, Organic–Inorganic Paraffin Phase Change Materials: Zinc Oxide Coating of Hermetically Encapsulated Paraffins. *Advanced Materials Interfaces*, **2019**, 6, 1900368	4.6	10
23	Ammonium and caesium carbonate peroxosolvates: supramolecular networks formed by hydrogen bonds. *Acta Crystallographica Section C: Crystal Structure Communications*, **2012**, 68, i20-4		10
22	Green Synthesis of a Nanocrystalline Tin Disulfide-Reduced Graphene Oxide Anode from Ammonium Peroxostannate: a Highly Stable Sodium-Ion Battery Anode. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 5485-5494	8.3	9
21	Cyclic dipeptide peroxosolvates: first direct evidence for hydrogen bonding between hydrogen peroxide and a peptide backbone. *CrystEngComm*, **2019**, 21, 4961-4968	3.3	9
20	Enhanced Thermal Buffering of Phase Change Materials by the Intramicrocapsule Sub per Mille CNT Dopant. *ACS Applied Materials & Interfaces*, **2020**, 12, 16227-16235	9.5	8
19	Renewable zinc dioxide nanoparticles and coatings. *Materials Letters*, **2014**, 116, 282-285	3.3	8
18	Synthesis, crystal structure and characterization of alkali metal hydroxoantimonates. *Inorganica Chimica Acta*, **2011**, 378, 24-29	2.7	7
17	Unusual Stabilization of Zinc Peroxide by Manganese Oxide: Mechanistic Understanding by Temperature-Dependent EPR Studies. *Journal of Physical Chemistry C*, **2019**, 123, 20884-20892	3.8	6
16	Crystalline Ammonium Peroxogermanate as a Waste-Free, Fully Recyclable Versatile Precursor for Germanium Compounds. *Inorganic Chemistry*, **2019**, 58, 1905-1911	5.1	5
15	Hydrogen peroxide sol–gel coating of microencapsulated phase change materials by metal oxides. *Journal of Sol-Gel Science and Technology*, **2020**, 95, 649-660	2.3	5
14	A composite based on sodium germanate and reduced graphene oxide: Synthesis from peroxogermanate and application as anode material for lithium ion batteries. *Russian Journal of Inorganic Chemistry*, **2017**, 62, 1624-1631	1.5	5
13	Stabilization of hydrogen peroxide by hydrogen bonding in the crystal structure of 2-aminobenzimidazole perhydrate. *CrystEngComm*, **2020**, 22, 2866-2872	3.3	4
12	Study of tin dioxide–sodium stannate composite obtained by decomposition of peroxostannate as a potential anode material for lithium-ion batteries. *Russian Journal of Inorganic Chemistry*, **2016**, 61, 1430-1435	1.5	4
11	Crystal structure of ()--benzyl-idene-1-phenyl-methanamine oxide hydrogen peroxide monosolvate. *Acta Crystallographica Section E: Crystallographic Communications*, **2017**, 73, 1666-1669	0.7	4
10	Hydroperoxo double hydrogen bonding: stabilization of hydroperoxo complexes exemplified by triphenylsilicon and triphenylgermanium hydroperoxides. *CrystEngComm*, **2020**, 22, 1922-1928	3.3	3

9	Identification of Barium Hydroxo-Hydroperoxostannate Precursor for Low-Temperature Formation of Perovskite Barium Stannate. *Inorganic Chemistry*, **2020**, 59, 18358-18365	5.1	2
8	Morphology and electrochemical properties of a composite produced by a peroxide method on the basis of tin dioxide and carbon black. *Russian Journal of Inorganic Chemistry*, **2016**, 61, 1578-1583	1.5	2
7	Green synthesis of zinc sulfide-reduced graphene oxide composite and its application in sodium-ion batteries. *Journal of Alloys and Compounds*, **2022**, 910, 164769	5.7	1
6	Sodium and Potassium tert-Butyl Peroxide Hydrates: Crystal Structure and Properties. *Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya*, **2021**, 47, 670-678	1.6	0
5	Phase Change Materials: Doubly Coated, Organic□Inorganic Paraffin Phase Change Materials: Zinc Oxide Coating of Hermetically Encapsulated Paraffins (Adv. Mater. Interfaces 12/2019). *Advanced Materials Interfaces*, **2019**, 6, 1970077	4.6	
4	On the stability of Al13 Keggin cation in aqueous hydrogen peroxide solutions. *Russian Journal of Inorganic Chemistry*, **2017**, 62, 1488-1494	1.5	
3	Synthesis of 6-Alkoxy- and 1,6-Dialkoxy-4-amino-1-aryl-3-oxo-2,3-dihydro-1H-pyrrolo[3,4-c]pyridine-7-carbonitriles. *Russian Journal of Organic Chemistry*, **2020**, 56, 1187-1190	0.7	
2	Graphene oxide supported tin dioxide: synthetic approaches and electrochemical characterization as anodes for lithium- and sodium-ion batteries. *Russian Chemical Bulletin*, **2018**, 67, 1131-1141	1.7	
1	Stabilization of Zinc Peroxide in the Combined Process of Granulation and Encapsulation. *Theoretical Foundations of Chemical Engineering*, **2018**, 52, 628-633	0.9	