Petr V Prikhodchenko

List of Publications by Year in Descending Order

61 papers	1,733 citations	21 h-index	41 g-index
69 ext. papers	1,941 ext. citations	5 avg, IF	4.54 L-index

#	Paper	IF	Citations
61	Synthesis and crystal structure of triphenyltin and lead complexes with organic peroxides. *Mendeleev Communications*, **2022**, 32, 57-59	1.9	0
60	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
59	Novel peroxosolvates of tetraalkylammonium halides: the first case of layers containing hydrogen-bonded peroxide molecules. *CrystEngComm*, **2021**, 24, 38-42	3.3	0
58	LC-MS analysis of nitroguanidine compounds by catalytic reduction using palladium modified graphitic carbon nitride catalyst. *Mikrochimica Acta*, **2021**, 188, 152	5.8	
57	First example of peroxosolvate of iodine-containing organic molecule. *Mendeleev Communications*, **2021**, 31, 352-355	1.9	2
56	First example of peroxosolvate of iodine-containing organic molecule. *Mendeleev Communications*, **2021**, 31, 352-355	1.9	
55	Identification of Barium Hydroxo-Hydroperoxostannate Precursor for Low-Temperature Formation of Perovskite Barium Stannate. *Inorganic Chemistry*, **2020**, 59, 18358-18365	5.1	2
54	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
53	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
52	Stabilization of hydrogen peroxide by hydrogen bonding in the crystal structure of 2-aminobenzimidazole perhydrate. *CrystEngComm*, **2020**, 22, 2866-2872	3.3	4
51	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
50	dl-Piperidinium-2-carboxyl-ate bis-(hydrogen peroxide): unusual hydrogen-bonded peroxide chains. *Acta Crystallographica Section E: Crystallographic Communications*, **2020**, 76, 1331-1335	0.7	4
49	Crystalline Peroxosolvates: Nature of the Coformer, Hydrogen-Bonded Networks and Clusters, Intermolecular Interactions. *Molecules*, **2020**, 26,	4.8	12
48	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
47	Hydroperoxo double hydrogen bonding: stabilization of hydroperoxo complexes exemplified by triphenylsilicon and triphenylgermanium hydroperoxides. *CrystEngComm*, **2020**, 22, 1922-1928	3.3	3
46	Crystalline Ammonium Peroxogermanate as a Waste-Free, Fully Recyclable Versatile Precursor for Germanium Compounds. *Inorganic Chemistry*, **2019**, 58, 1905-1911	5.1	5
45	Phase Change Materials: Doubly Coated, Organic□norganic Paraffin Phase Change Materials: Zinc Oxide Coating of Hermetically Encapsulated Paraffins (Adv. Mater. Interfaces 12/2019). *Advanced Materials Interfaces*, **2019**, 6, 1970077	4.6	

44	Doubly Coated, Organic□Inorganic Paraffin Phase Change Materials: Zinc Oxide Coating of Hermetically Encapsulated Paraffins. *Advanced Materials Interfaces*, **2019**, 6, 1900368	4.6	10
43	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
42	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
41	Cyclic dipeptide peroxosolvates: first direct evidence for hydrogen bonding between hydrogen peroxide and a peptide backbone. *CrystEngComm*, **2019**, 21, 4961-4968	3.3	9
40	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
39	Graphene Oxide-Supported □Tin Telluride Composite for Sodium- and Lithium-Ion Battery Anodes. *Energy Technology*, **2018**, 6, 127-133	3.5	26
38	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
37	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
36	Crystal structures of non-proteinogenic amino acid peroxosolvates: rare example of H-bonded hydrogen peroxide chains. *CrystEngComm*, **2018**, 20, 7413-7416	3.3	6
35	The Crystal Structure of Guanidinium Sulphate Hemiperoxosolvate. *Propellants, Explosives, Pyrotechnics*, **2018**, 43, 859-861	1.7	0
34	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
33	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
32	Titelbild: Hydrogen Peroxide Insular Dodecameric and Pentameric Clusters in Peroxosolvate Structures (Angew. Chem. 48/2017). *Angewandte Chemie*, **2017**, 129, 15365-15365	3.6	
31	Hydrogen Peroxide Insular Dodecameric and Pentameric Clusters in Peroxosolvate Structures. *Angewandte Chemie*, **2017**, 129, 15443-15447	3.6	1
30	Hydrogen Peroxide Insular Dodecameric and Pentameric Clusters in Peroxosolvate Structures. *Angewandte Chemie - International Edition*, **2017**, 56, 15241-15245	16.4	15
29	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
28	Peroxosolvates: Formation Criteria, H2O2 Hydrogen Bonding, and Isomorphism with the Corresponding Hydrates. *Crystal Growth and Design*, **2017**, 17, 214-220	3.5	42
27	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

26	Crystal structure of 2,3,5,6-tetra-kis-(pyridin-2-yl)pyrazine hydrogen peroxide 4.75-solvate. *Acta Crystallographica Section E: Crystallographic Communications*, **2017**, 73, 1793-1796	0.7	5
25	Peroxide Coordination of Tellurium in Aqueous Solutions. *Chemistry - A European Journal*, **2016**, 22, 2980-6	4.8	19
24	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
23	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
22	Renewable zinc dioxide nanoparticles and coatings. *Materials Letters*, **2014**, 116, 282-285	3.3	8
21	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
20	Aqueous stability of alumina and silica perhydrate hydrogels: experiments and computations. *Dalton Transactions*, **2014**, 43, 16614-25	4.3	20
19	High-capacity antimony sulphide nanoparticle-decorated graphene composite as anode for sodium-ion batteries. *Nature Communications*, **2013**, 4, 2922	17.4	425
18	Zinc dioxide nanoparticulates: a hydrogen peroxide source at moderate pH. *Environmental Science & Technology*, **2013**, 47, 8769-74	10.3	52
17	Graphene oxide organogel electrolyte for quasi solid dye sensitized solar cells. *Electrochemistry Communications*, **2012**, 19, 108-110	5.1	40
16	Conversion of Hydroperoxoantimonate Coated Graphenes to Sb2S3@Graphene for a Superior Lithium Battery Anode. *Chemistry of Materials*, **2012**, 24, 4750-4757	9.6	128
15	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
14	Encapsulation of yeast displaying glucose oxidase on their surface in graphene oxide hydrogel scaffolding and its bioactivation. *Chemical Communications*, **2012**, 48, 11957-9	5.8	21
13	Ammonium and caesium carbonate peroxosolvates: supramolecular networks formed by hydrogen bonds. *Acta Crystallographica Section C: Crystal Structure Communications*, **2012**, 68, i20-4		10
12	H-bond network in amino acid cocrystals with H2O or H2O2. The DFT study of serine-H2O and serine-H2O2. *Journal of Physical Chemistry A*, **2011**, 115, 13657-63	2.8	66
11	Synthesis, crystal structure and characterization of alkali metal hydroxoantimonates. *Inorganica Chimica Acta*, **2011**, 378, 24-29	2.7	7
10	Crystal structures of natural amino acid perhydrates. *CrystEngComm*, **2011**, 13, 2399	3.3	45
9	A model proton-transfer system in the condensed phase: NH4(+)OOH(-), a crystal with short intermolecular H-bonds. *Journal of Chemical Physics*, **2010**, 133, 164506	3.9	31

8	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
7	Cesium hydroperoxostannate: first complete structural characterization of a homoleptic hydroperoxocomplex. *Inorganic Chemistry*, **2010**, 49, 4762-4	5.1	32
6	Preparation of pure hydrogen peroxide and anhydrous peroxide solutions from crystalline serine perhydrate. *Tetrahedron*, **2010**, 66, 5130-5133	2.4	21
5	Hydrogen peroxide induced formation of peroxystannate nanoparticles. *Journal of Sol-Gel Science and Technology*, **2009**, 50, 229-240	2.3	31
4	Glycine and L-serine crystalline perhydrates. *Chemical Communications*, **2009**, 4224-6	5.8	35
3	Electro-oxidation of Ruthenium Cyclopentadienyl PTA Complexes in DMF. *Journal of the Electrochemical Society*, **2007**, 154, F7	3.9	11
2	The first molecular structure containing four hydroperoxo groups: piperazine-2,3,5,6-tetrayl tetrahydroperoxide pyrazine disolvate dihydrate. *Acta Crystallographica Section E: Structure Reports Online*, **2006**, 62, o2265-o2267		0
1	The preparation and crystal structures of novel perhydrates Ph4X+Hal□nH2O2: anionic hydrogen-bonded chains containing hydrogen peroxide. *CrystEngComm*, **2005**, 7, 664	3.3	30