

Petr V Prikhodchenko

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	High-capacity antimony sulphide nanoparticle-decorated graphene composite as anode for sodium-ion batteries. <i>Nature Communications</i> , 2013 , 4, 2922	17.4	425
60	Nanocrystalline SnS coated onto reduced graphene oxide: demonstrating the feasibility of a non-graphitic anode with sulfide chemistry for potassium-ion batteries. <i>Chemical Communications</i> , 2017 , 53, 8272-8275	5.8	164
59	Conversion of Hydroperoxoantimonate Coated Graphenes to Sb ₂ S ₃ @Graphene for a Superior Lithium Battery Anode. <i>Chemistry of Materials</i> , 2012 , 24, 4750-4757	9.6	128
58	Nanocrystalline tin disulfide coating of reduced graphene oxide produced by the peroxostannate deposition route for sodium ion battery anodes. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 8431	13	104
57	H-bond network in amino acid cocrystals with H ₂ O or H ₂ O ₂ . The DFT study of serine-H ₂ O and serine-H ₂ O ₂ . <i>Journal of Physical Chemistry A</i> , 2011 , 115, 13657-63	2.8	66
56	Zinc dioxide nanoparticulates: a hydrogen peroxide source at moderate pH. <i>Environmental Science & Technology</i> , 2013 , 47, 8769-74	10.3	52
55	Crystal structures of natural amino acid perhydrates. <i>CrystEngComm</i> , 2011 , 13, 2399	3.3	45
54	Peroxosolvates: Formation Criteria, H ₂ O ₂ Hydrogen Bonding, and Isomorphism with the Corresponding Hydrates. <i>Crystal Growth and Design</i> , 2017 , 17, 214-220	3.5	42
53	Graphene oxide organogel electrolyte for quasi solid dye sensitized solar cells. <i>Electrochemistry Communications</i> , 2012 , 19, 108-110	5.1	40
52	GeO Thin Film Deposition on Graphene Oxide by the Hydrogen Peroxide Route: Evaluation for Lithium-Ion Battery Anode. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 9152-9160	9.5	39
51	The formation of a peroxyantimonate thin film coating on graphene oxide (GO) and the influence of the GO on its transformation to antimony oxides and elemental antimony. <i>Carbon</i> , 2012 , 50, 5463-5471	10.4	39
50	Antimony tin oxide (ATO) nanoparticle formation from H ₂ O ₂ solutions: a new generic film coating from basic solutions. <i>Inorganic Chemistry</i> , 2010 , 49, 9110-2	5.1	37
49	Glycine and L-serine crystalline perhydrates. <i>Chemical Communications</i> , 2009 , 4224-6	5.8	35
48	Cesium hydroperoxostannate: first complete structural characterization of a homoleptic hydroperoxocomplex. <i>Inorganic Chemistry</i> , 2010 , 49, 4762-4	5.1	32
47	A model proton-transfer system in the condensed phase: NH ₄ (+)OOH(-), a crystal with short intermolecular H-bonds. <i>Journal of Chemical Physics</i> , 2010 , 133, 164506	3.9	31
46	Hydrogen peroxide induced formation of peroxystannate nanoparticles. <i>Journal of Sol-Gel Science and Technology</i> , 2009 , 50, 229-240	2.3	31
45	The preparation and crystal structures of novel perhydrates Ph ₄ X ⁺ Hal ₃ ⁻ H ₂ O ₂ : anionic hydrogen-bonded chains containing hydrogen peroxide. <i>CrystEngComm</i> , 2005 , 7, 664	3.3	30

44	Potassium, Cesium, and Ammonium Peroxogermanates with Inorganic Hexanuclear Peroxo Bridged Germanium Anion Isolated from Aqueous Solution. <i>Inorganic Chemistry</i> , 2015 , 54, 8058-65	5.1	28
43	Graphene Oxide-Supported Tin Telluride Composite for Sodium- and Lithium-Ion Battery Anodes. <i>Energy Technology</i> , 2018 , 6, 127-133	3.5	26
42	Synthesis of high volumetric capacity graphene oxide-supported tellurantimony Na- and Li-ion battery anodes by hydrogen peroxide sol gel processing. <i>Journal of Colloid and Interface Science</i> , 2018 , 512, 165-171	9.3	23
41	Encapsulation of yeast displaying glucose oxidase on their surface in graphene oxide hydrogel scaffolding and its bioactivation. <i>Chemical Communications</i> , 2012 , 48, 11957-9	5.8	21
40	Preparation of pure hydrogen peroxide and anhydrous peroxide solutions from crystalline serine perhydrate. <i>Tetrahedron</i> , 2010 , 66, 5130-5133	2.4	21
39	Aqueous stability of alumina and silica perhydrate hydrogels: experiments and computations. <i>Dalton Transactions</i> , 2014 , 43, 16614-25	4.3	20
38	Peroxide Coordination of Tellurium in Aqueous Solutions. <i>Chemistry - A European Journal</i> , 2016 , 22, 2980-8	4.8	19
37	Vanadium Oxide Thin Film Formation on Graphene Oxide by Microexplosive Decomposition of Ammonium Peroxovanadate and Its Application as a Sodium Ion Battery Anode. <i>Langmuir</i> , 2018 , 34, 2741-2747	16	16
36	Probing electrochemical reactivity in an Sb ₂ S ₃ -containing potassium-ion battery anode: observation of an increased capacity. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 11424-11434	13	16
35	Hydrogen Peroxide Insular Dodecameric and Pentameric Clusters in Peroxosolvate Structures. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 15241-15245	16.4	15
34	Brush like polyaniline on vanadium oxide decorated reduced graphene oxide: Efficient electrode materials for supercapacitor. <i>Journal of Energy Storage</i> , 2019 , 22, 188-193	7.8	15
33	HO induced formation of graded composition sodium-doped tin dioxide and template-free synthesis of yolk-shell SnO particles and their sensing application. <i>Dalton Transactions</i> , 2017 , 46, 16171-16179	15	15
32	Antimony and antimony oxide@graphene oxide obtained by the peroxide route as anodes for lithium-ion batteries. <i>Main Group Metal Chemistry</i> , 2015 , 38,	1.6	14
31	Crystalline Peroxosolvates: Nature of the Coformer, Hydrogen-Bonded Networks and Clusters, Intermolecular Interactions. <i>Molecules</i> , 2020 , 26,	4.8	12
30	Electro-oxidation of Ruthenium Cyclopentadienyl PTA Complexes in DMF. <i>Journal of the Electrochemical Society</i> , 2007 , 154, F7	3.9	11
29	Effect of aluminum vacancies on the H ₂ O ₂ or H ₂ O interaction with a gamma-AlOOH surface. A solid-state DFT study. <i>International Journal of Quantum Chemistry</i> , 2019 , 119, e25920	2.1	11
28	Doubly Coated, Organic-Inorganic Paraffin Phase Change Materials: Zinc Oxide Coating of Hermetically Encapsulated Paraffins. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1900368	4.6	10
27	Ammonium and caesium carbonate peroxosolvates: supramolecular networks formed by hydrogen bonds. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2012 , 68, i20-4		10

26	Green Synthesis of a Nanocrystalline Tin Disulfide-Reduced Graphene Oxide Anode from Ammonium Peroxostannate: a Highly Stable Sodium-Ion Battery Anode. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 5485-5494	8.3	9
25	Cyclic dipeptide peroxosolvates: first direct evidence for hydrogen bonding between hydrogen peroxide and a peptide backbone. <i>CrystEngComm</i> , 2019 , 21, 4961-4968	3.3	9
24	Enhanced Thermal Buffering of Phase Change Materials by the Intramicrocapsule Sub per Mille CNT Dopant. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 16227-16235	9.5	8
23	Renewable zinc dioxide nanoparticles and coatings. <i>Materials Letters</i> , 2014 , 116, 282-285	3.3	8
22	Synthesis, crystal structure and characterization of alkali metal hydroxoantimonates. <i>Inorganica Chimica Acta</i> , 2011 , 378, 24-29	2.7	7
21	Unusual Stabilization of Zinc Peroxide by Manganese Oxide: Mechanistic Understanding by Temperature-Dependent EPR Studies. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 20884-20892	3.8	6
20	Crystal structures of non-proteinogenic amino acid peroxosolvates: rare example of H-bonded hydrogen peroxide chains. <i>CrystEngComm</i> , 2018 , 20, 7413-7416	3.3	6
19	Crystalline Ammonium Peroxogermanate as a Waste-Free, Fully Recyclable Versatile Precursor for Germanium Compounds. <i>Inorganic Chemistry</i> , 2019 , 58, 1905-1911	5.1	5
18	Hydrogen peroxide sol-gel coating of microencapsulated phase change materials by metal oxides. <i>Journal of Sol-Gel Science and Technology</i> , 2020 , 95, 649-660	2.3	5
17	Crystal structure of 2,3,5,6-tetra-kis-(pyridin-2-yl)pyrazine hydrogen peroxide 4.75-solvate. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2017 , 73, 1793-1796	0.7	5
16	Stabilization of hydrogen peroxide by hydrogen bonding in the crystal structure of 2-aminobenzimidazole perhydrate. <i>CrystEngComm</i> , 2020 , 22, 2866-2872	3.3	4
15	Crystal structure of (-)-benzyl-idene-1-phenyl-methanamine oxide hydrogen peroxide monosolvate. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2017 , 73, 1666-1669	0.7	4
14	dl-Piperidinium-2-carboxyl-ate bis-(hydrogen peroxide): unusual hydrogen-bonded peroxide chains. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2020 , 76, 1331-1335	0.7	4
13	Hydroperoxo double hydrogen bonding: stabilization of hydroperoxo complexes exemplified by triphenylsilicon and triphenylgermanium hydroperoxides. <i>CrystEngComm</i> , 2020 , 22, 1922-1928	3.3	3
12	Identification of Barium Hydroxo-Hydroperoxostannate Precursor for Low-Temperature Formation of Perovskite Barium Stannate. <i>Inorganic Chemistry</i> , 2020 , 59, 18358-18365	5.1	2
11	First example of peroxosolvate of iodine-containing organic molecule. <i>Mendeleev Communications</i> , 2021 , 31, 352-355	1.9	2
10	Hydrogen Peroxide Insular Dodecameric and Pentameric Clusters in Peroxosolvate Structures. <i>Angewandte Chemie</i> , 2017 , 129, 15443-15447	3.6	1
9	Green synthesis of zinc sulfide-reduced graphene oxide composite and its application in sodium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2022 , 910, 164769	5.7	1

8	The first molecular structure containing four hydroperoxy groups: piperazine-2,3,5,6-tetrayl tetrahydroperoxide pyrazine disolvate dihydrate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2006 , 62, o2265-o2267		o
7	Novel peroxosolvates of tetraalkylammonium halides: the first case of layers containing hydrogen-bonded peroxide molecules. <i>CrystEngComm</i> , 2021 , 24, 38-42	3.3	o
6	The Crystal Structure of Guanidinium Sulphate Hemiperoxosolvate. <i>Propellants, Explosives, Pyrotechnics</i> , 2018 , 43, 859-861	1.7	o
5	Synthesis and crystal structure of triphenyltin and lead complexes with organic peroxides. <i>Mendeleev Communications</i> , 2022 , 32, 57-59	1.9	o
4	Titelbild: Hydrogen Peroxide Insular Dodecameric and Pentameric Clusters in Peroxosolvate Structures (Angew. Chem. 48/2017). <i>Angewandte Chemie</i> , 2017 , 129, 15365-15365	3.6	
3	Phase Change Materials: Doubly Coated, Organic/Inorganic Paraffin Phase Change Materials: Zinc Oxide Coating of Hermetically Encapsulated Paraffins (Adv. Mater. Interfaces 12/2019). <i>Advanced Materials Interfaces</i> , 2019 , 6, 1970077	4.6	
2	LC-MS analysis of nitroguanidine compounds by catalytic reduction using palladium modified graphitic carbon nitride catalyst. <i>Mikrochimica Acta</i> , 2021 , 188, 152	5.8	
1	First example of peroxosolvate of iodine-containing organic molecule. <i>Mendeleev Communications</i> , 2021 , 31, 352-355	1.9	