

# Alexey M Glushenkov

## List of Publications by Citations

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74  
papers

4,044  
citations

33  
h-index

63  
g-index

77  
ext. papers

4,592  
ext. citations

7.9  
avg, IF

5.73  
L-index

#	Paper	IF	Citations
74	Tin-based composite anodes for potassium-ion batteries. <i>Chemical Communications</i> , <b>2016</b> , 52, 9279-82	5.8	308
73	Large-scale mechanical peeling of boron nitride nanosheets by low-energy ball milling. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 11862		301
72	Potassium-Ion Battery Anode Materials Operating through the Alloying/Dealloying Reaction Mechanism. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1703857	15.6	252
71	Phosphorus-carbon nanocomposite anodes for lithium-ion and sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 5572-5584	13	210
70	High capacity potassium-ion battery anodes based on black phosphorus. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 23506-23512	13	191
69	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> , <b>2017</b> , 53, 8272-8275	5.8	164
68	K-ion and Na-ion storage performances of CoO-FeO nanoparticle-decorated super P carbon black prepared by a ball milling process. <i>Nanoscale</i> , <b>2017</b> , 9, 3646-3654	7.7	139
67	Nanopatterning and Electrical Tuning of MoS <sub>2</sub> Layers with a Subnanometer Helium Ion Beam. <i>Nano Letters</i> , <b>2015</b> , 15, 5307-13	11.5	138
66	Lithium-ion capacitors with 2D Nb <sub>2</sub> C <sub>2</sub> T <sub>x</sub> (MXene) /carbon nanotube electrodes. <i>Journal of Power Sources</i> , <b>2016</b> , 326, 686-694	8.9	138
65	Structure and Capacitive Properties of Porous Nanocrystalline VN Prepared by Temperature-Programmed Ammonia Reduction of V <sub>2</sub> O <sub>5</sub> . <i>Chemistry of Materials</i> , <b>2010</b> , 22, 914-921	9.6	134
64	Electrochemical investigation of sodium reactivity with nanostructured Co <sub>3</sub> O <sub>4</sub> for sodium-ion batteries. <i>Chemical Communications</i> , <b>2014</b> , 50, 5057-60	5.8	133
63	MoO <sub>3</sub> nanoparticles dispersed uniformly in carbon matrix: a high capacity composite anode for Li-ion batteries. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 9350		120
62	Ball milling: a green mechanochemical approach for synthesis of nitrogen doped carbon nanoparticles. <i>Nanoscale</i> , <b>2013</b> , 5, 7970-6	7.7	104
61	New developments in composites, copolymer technologies and processing techniques for flexible fluoropolymer piezoelectric generators for efficient energy harvesting. <i>Energy and Environmental Science</i> , <b>2019</b> , 12, 1143-1176	35.4	100
60	High-efficient production of boron nitride nanosheets via an optimized ball milling process for lubrication in oil. <i>Scientific Reports</i> , <b>2014</b> , 4, 7288	4.9	96
59	Stable anode performance of an Sb-carbon nanocomposite in lithium-ion batteries and the effect of ball milling mode in the course of its preparation. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 4282	13	75
58	Self-assembly of core-satellite gold nanoparticles for colorimetric detection of copper ions. <i>Analytica Chimica Acta</i> , <b>2013</b> , 803, 128-34	6.6	71

57	Plasmonic substrates for surface enhanced Raman scattering. <i>Analytica Chimica Acta</i> , <b>2017</b> , 984, 19-41	6.6	65
56	Enhanced lithium storage in ZnFe <sub>2</sub> O <sub>4</sub> /C nanocomposite produced by a low-energy ball milling. <i>Journal of Power Sources</i> , <b>2015</b> , 282, 462-470	8.9	58
55	Size and Composition Effects in Sb-Carbon Nanocomposites for Sodium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 30152-30164	9.5	54
54	Synthesis of boron nitride nanotubes by boron ink annealing. <i>Nanotechnology</i> , <b>2010</b> , 21, 105601	3.4	54
53	Boron nitride nanotube films grown from boron ink painting. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 9679		53
52	Enhanced lithium storage in Fe <sub>2</sub> O <sub>3</sub> -SnO <sub>2</sub> -C nanocomposite anode with a breathable structure. <i>Nanoscale</i> , <b>2013</b> , 5, 4910-6	7.7	50
51	A Novel Approach for Real Mass Transformation from V <sub>2</sub> O <sub>5</sub> Particles to Nanorods. <i>Crystal Growth and Design</i> , <b>2008</b> , 8, 3661-3665	3.5	47
50	Antimony-carbon nanocomposites for potassium-ion batteries: Insight into the failure mechanism in electrodes and possible avenues to improve cyclic stability. <i>Journal of Power Sources</i> , <b>2019</b> , 413, 476-484	8.9	43
49	Ilmenite FeTiO <sub>3</sub> Nanoflowers and Their Pseudocapacitance. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 17297-17302	3.8	42
48	Single deep ultraviolet light emission from boron nitride nanotube film. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 141104	3.4	40
47	Reversible Three-Electron Redox Reaction of Mo <sup>3+</sup> /Mo <sup>6+</sup> for Rechargeable Lithium Batteries. <i>ACS Energy Letters</i> , <b>2017</b> , 2, 733-738	20.1	39
46	Facile Solution Processing of Stable MXene Dispersions towards Conductive Composite Fibers. <i>Global Challenges</i> , <b>2019</b> , 3, 1900037	4.3	38
45	Electrochemical capacitance of mesoporous tungsten oxynitride in aqueous electrolytes. <i>Journal of Power Sources</i> , <b>2012</b> , 220, 298-305	8.9	36
44	Growth of V <sub>2</sub> O <sub>5</sub> nanorods from ball-milled powders and their performance in cathodes and anodes of lithium-ion batteries. <i>Journal of Solid State Electrochemistry</i> , <b>2010</b> , 14, 1841-1846	2.6	35
43	Efficient production of ZnO nanowires by a ball milling and annealing method. <i>Nanotechnology</i> , <b>2007</b> , 18, 175604	3.4	35
42	Reactive ball milling to produce nanocrystalline ZnO. <i>Materials Letters</i> , <b>2008</b> , 62, 4047-4049	3.3	34
41	Understanding Structure-Function Relationship in Hybrid Co <sub>3</sub> O <sub>4</sub> -Fe <sub>2</sub> O <sub>3</sub> /C Lithium-Ion Battery Electrodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 20736-44	9.5	33
40	Nanofibrous carbon with herringbone structure as an effective catalyst of the H <sub>2</sub> S selective oxidation. <i>Carbon</i> , <b>2010</b> , 48, 2004-2012	10.4	32

39	Mechanochemistry: A force in disguise and conditional effects towards chemical reactions. <i>Chemical Communications</i> , <b>2021</b> , 57, 1080-1092	5.8	31
38	Na-Excess Cation-Disordered Rocksalt Oxide: Na <sub>1.3</sub> Nb <sub>0.3</sub> Mn <sub>0.4</sub> O <sub>2</sub> . <i>Chemistry of Materials</i> , <b>2017</b> , 29, 5043-5047	9.6	29
37	Titanium Dioxide Nanotube Films for Electrochemical Supercapacitors: Biocompatibility and Operation in an Electrolyte Based on a Physiological Fluid. <i>Journal of the Electrochemical Society</i> , <b>2015</b> , 162, A5065-A5069	3.9	29
36	New effective catalysts based on mesoporous nanofibrous carbon for selective oxidation of hydrogen sulfide. <i>Applied Catalysis B: Environmental</i> , <b>2009</b> , 85, 180-191	21.8	29
35	Bimetallic molybdenum tungsten oxynitride: structure and electrochemical properties. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 7889	13	28
34	Lithium Germanate (Li <sub>2</sub> GeO <sub>5</sub> ): A High-Performance Anode Material for Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 16059-16063	16.4	26
33	Electrochemical reactivity of ilmenite FeTiO <sub>3</sub> , its nanostructures and oxide-carbon nanocomposites with lithium. <i>Electrochimica Acta</i> , <b>2013</b> , 108, 127-134	6.7	24
32	Effect of Nanosizing on Reversible Sodium Storage in a NaCrO <sub>2</sub> Electrode. <i>ACS Applied Nano Materials</i> , <b>2018</b> , 1, 364-370	5.6	23
31	Highly dispersed and disordered nickel-iron layered hydroxides and sulphides: robust and high-activity water oxidation catalysts. <i>Sustainable Energy and Fuels</i> , <b>2018</b> , 2, 1561-1573	5.8	22
30	Expanding the applications of the ilmenite mineral to the preparation of nanostructures: TiO <sub>2</sub> nanorods and their photocatalytic properties in the degradation of oxalic acid. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 1091-6	4.8	22
29	Nanoporous transition metal oxynitrides as catalysts for the oxygen reduction reaction. <i>Electrochimica Acta</i> , <b>2013</b> , 103, 151-160	6.7	21
28	Synthesis of Composite Nanosheets of Graphene and Boron Nitride and Their Lubrication Application in Oil. <i>Advanced Engineering Materials</i> , <b>2018</b> , 20, 1700488	3.5	19
27	Titanium Oxide Nanorods Extracted From Ilmenite Sands. <i>Crystal Growth and Design</i> , <b>2009</b> , 9, 1240-1244	3.5	19
26	3D printing of poly(vinylidene fluoride-trifluoroethylene): a poling-free technique to manufacture flexible and transparent piezoelectric generators. <i>MRS Communications</i> , <b>2019</b> , 9, 159-164	2.7	17
25	Bi-Functional Water/Oxygen Electrocatalyst Based on PdO-RuO <sub>2</sub> Composites. <i>Journal of the Electrochemical Society</i> , <b>2013</b> , 160, H74-H79	3.9	17
24	Porous TiO <sub>2</sub> with a controllable bimodal pore size distribution from natural ilmenite. <i>CrystEngComm</i> , <b>2011</b> , 13, 1322-1327	3.3	17
23	Carbon coated Na <sub>7</sub> Fe <sub>7</sub> (PO <sub>4</sub> ) <sub>6</sub> F <sub>3</sub> : A novel intercalation cathode for sodium-ion batteries. <i>Journal of Power Sources</i> , <b>2014</b> , 271, 497-503	8.9	16
22	Probing electrochemical reactivity in an Sb <sub>2</sub> S <sub>3</sub> -containing potassium-ion battery anode: observation of an increased capacity. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 11424-11434	13	16

21	Evolution of the electrochemical capacitance of transition metal oxynitrides with time: the effect of ageing and passivation. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 12940-12951	13	15
20	Cell Configurations and Electrode Materials for Nonaqueous Sodium-Ion Capacitors: The Current State of the Field. <i>Advanced Sustainable Systems</i> , <b>2018</b> , 2, 1800006	5.9	14
19	Clusters of $\text{LiFeO}_2$ nanoparticles incorporated into multi-walled carbon nanotubes: a lithium-ion battery cathode with enhanced lithium storage properties. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 20371-8	3.6	14
18	Crystal phase engineered quantum wells in ZnO nanowires. <i>Nanotechnology</i> , <b>2013</b> , 24, 215202	3.4	14
17	Unusual corrugated nanowires of zinc oxide. <i>Journal of Crystal Growth</i> , <b>2008</b> , 310, 3139-3143	1.6	14
16	Optimisation of sodium-based energy storage cells using pre-sodiation: a perspective on the emerging field. <i>Energy and Environmental Science</i> , <b>2021</b> , 14, 1380-1401	35.4	13
15	Documenting capacity and cyclic stability enhancements in synthetic graphite potassium-ion battery anode material modified by low-energy liquid phase ball milling. <i>Journal of Power Sources</i> , <b>2020</b> , 476, 228733	8.9	12
14	Preparation of composite electrodes with carbon nanotubes for lithium-ion batteries by low-energy ball milling. <i>RSC Advances</i> , <b>2014</b> , 4, 36649-36655	3.7	11
13	Investigation of K modified $\text{P}_2\text{Na}_{0.7}\text{Mn}_{0.8}\text{Mg}_{0.2}\text{O}_2$ as a cathode material for sodium-ion batteries. <i>CrystEngComm</i> , <b>2019</b> , 21, 172-181	3.3	10
12	Anomalous evaporation behavior of ZnO powder milled mechanically under high-energy conditions. <i>Materials Letters</i> , <b>2008</b> , 62, 715-718	3.3	10
11	Ball milled $\text{SnO}_2$ : a modified vapor source for growing nanostructures. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 504, S315-S318	5.7	9
10	Catalytic properties of nanofibrous carbon in selective oxidation of hydrogen sulphide. <i>Particuology: Science and Technology of Particles</i> , <b>2006</b> , 4, 70-72		8
9	Lithium Germanate ( $\text{Li}_2\text{GeO}_3$ ): A High-Performance Anode Material for Lithium-Ion Batteries. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 16293-16297	3.6	7
8	In situ doping and synthesis of two-dimensional nanomaterials using mechano-chemistry. <i>Nanoscale Horizons</i> , <b>2019</b> , 4, 642-646	10.8	6
7	Two-Dimensional Metal Oxide Nanoflower-Like Architectures: A General Growth Method and Their Applications in Energy Storage and as Model Materials for Nanofabrication. <i>ChemPlusChem</i> , <b>2017</b> , 82, 295-302	2.8	6
6	Air-assisted growth of tin dioxide nanoribbons. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2010</b> , 10, 5015-9	1.3	4
5	Nano germanium incorporated thin graphite nanoplatelets: A novel germanium based lithium-ion battery anode with enhanced electrochemical performance. <i>Electrochimica Acta</i> , <b>2021</b> , 391, 139001	6.7	4
4	End-of-Life Photovoltaic Recycled Silicon: A Sustainable Circular Materials Source for Electronic Industries. <i>Advanced Energy and Sustainability Research</i> , <b>2021</b> , 2, 2100081	1.6	1

- 3 Advanced Dual-Ion Batteries with High-Capacity Negative Electrodes Incorporating Black Phosphorus.. *Advanced Science*, **2022**, e2201116 13.6 1
- 2 N-doped carbon nanofibers from pyrolysis of free-base phthalocyanine. *Diamond and Related Materials*, **2020**, 105, 107812 3.5 0
- 1 V2O5 Nanorods with Improved Cycling Stability for Li Intercalation. *Materials Research Society Symposia Proceedings*, **2009**, 1170, 76