Alexey M Glushenkov

List of Publications by Year in Descending Order

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	Advanced Dual-Ion Batteries with High-Capacity Negative Electrodes Incorporating Black Phosphorus.. *Advanced Science*, **2022**, e2201116	13.6	1
73	End-of-Life Photovoltaic Recycled Silicon: A Sustainable Circular Materials Source for Electronic Industries. *Advanced Energy and Sustainability Research*, **2021**, 2, 2100081	1.6	1
72	Mechanochemistry: A force in disguise and conditional effects towards chemical reactions. *Chemical Communications*, **2021**, 57, 1080-1092	5.8	31
71	Nano germanium incorporated thin graphite nanoplatelets: A novel germanium based lithium-ion battery anode with enhanced electrochemical performance. *Electrochimica Acta*, **2021**, 391, 139001	6.7	4
70	Optimisation of sodium-based energy storage cells using pre-sodiation: a perspective on the emerging field. *Energy and Environmental Science*, **2021**, 14, 1380-1401	35.4	13
69	N-doped carbon nanofibers from pyrolysis of free-base phthalocyanine. *Diamond and Related Materials*, **2020**, 105, 107812	3.5	0
68	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
67	Documenting capacity and cyclic stability enhancements in synthetic graphite potassium-ion battery anode material modified by low-energy liquid phase ball milling. *Journal of Power Sources*, **2020**, 476, 228733	8.9	12
66	In situ doping and synthesis of two-dimensional nanomaterials using mechano-chemistry. *Nanoscale Horizons*, **2019**, 4, 642-646	10.8	6
65	Investigation of K modified P2 Na0.7Mn0.8Mg0.2O2 as a cathode material for sodium-ion batteries. *CrystEngComm*, **2019**, 21, 172-181	3.3	10
64	New developments in composites, copolymer technologies and processing techniques for flexible fluoropolymer piezoelectric generators for efficient energy harvesting. *Energy and Environmental Science*, **2019**, 12, 1143-1176	35.4	100
63	3D printing of poly(vinylidene fluoride-trifluoroethylene): a poling-free technique to manufacture flexible and transparent piezoelectric generators. *MRS Communications*, **2019**, 9, 159-164	2.7	17
62	Facile Solution Processing of Stable MXene Dispersions towards Conductive Composite Fibers. *Global Challenges*, **2019**, 3, 1900037	4.3	38
61	Antimony-carbon nanocomposites for potassium-ion batteries: Insight into the failure mechanism in electrodes and possible avenues to improve cyclic stability. *Journal of Power Sources*, **2019**, 413, 476-484	8.9	43
60	Highly dispersed and disordered nickel-iron layered hydroxides and sulphides: robust and high-activity water oxidation catalysts. *Sustainable Energy and Fuels*, **2018**, 2, 1561-1573	5.8	22
59	Effect of Nanosizing on Reversible Sodium Storage in a NaCrO2 Electrode. *ACS Applied Nano Materials*, **2018**, 1, 364-370	5.6	23
58	Synthesis of Composite Nanosheets of Graphene and Boron Nitride and Their Lubrication Application in Oil. *Advanced Engineering Materials*, **2018**, 20, 1700488	3.5	19

57	Cell Configurations and Electrode Materials for Nonaqueous Sodium-Ion Capacitors: The Current State of the Field. *Advanced Sustainable Systems*, **2018**, 2, 1800006	5.9	14
56	Potassium-Ion Battery Anode Materials Operating through the Alloying–Dealloying Reaction Mechanism. *Advanced Functional Materials*, **2018**, 28, 1703857	15.6	252
55	K-ion and Na-ion storage performances of CoO-FeO nanoparticle-decorated super P carbon black prepared by a ball milling process. *Nanoscale*, **2017**, 9, 3646-3654	7.7	139
54	Reversible Three-Electron Redox Reaction of Mo3+/Mo6+ for Rechargeable Lithium Batteries. *ACS Energy Letters*, **2017**, 2, 733-738	20.1	39
53	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
52	Plasmonic substrates for surface enhanced Raman scattering. *Analytica Chimica Acta*, **2017**, 984, 19-41	6.6	65
51	Na-Excess Cation-Disordered Rocksalt Oxide: Na1.3Nb0.3Mn0.4O2. *Chemistry of Materials*, **2017**, 29, 5043-5047	9.6	29
50	High capacity potassium-ion battery anodes based on black phosphorus. *Journal of Materials Chemistry A*, **2017**, 5, 23506-23512	13	191
49	Two-Dimensional Metal Oxide Nanoflower-Like Architectures: A General Growth Method and Their Applications in Energy Storage and as Model Materials for Nanofabrication. *ChemPlusChem*, **2017**, 82, 295-302	2.8	6
48	Lithium Germanate (Li2GeO3): A High-Performance Anode Material for Lithium-Ion Batteries. *Angewandte Chemie*, **2016**, 128, 16293-16297	3.6	7
47	Lithium Germanate (Li GeO): A High-Performance Anode Material for Lithium-Ion Batteries. *Angewandte Chemie - International Edition*, **2016**, 55, 16059-16063	16.4	26
46	Size and Composition Effects in Sb-Carbon Nanocomposites for Sodium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2016**, 8, 30152-30164	9.5	54
45	Tin-based composite anodes for potassium-ion batteries. *Chemical Communications*, **2016**, 52, 9279-82	5.8	308
44	Lithium-ion capacitors with 2D Nb2CTx (MXene)–carbon nanotube electrodes. *Journal of Power Sources*, **2016**, 326, 686-694	8.9	138
43	Nanopatterning and Electrical Tuning of MoS2 Layers with a Subnanometer Helium Ion Beam. *Nano Letters*, **2015**, 15, 5307-13	11.5	138
42	Understanding Structure-Function Relationship in Hybrid Co3O4-Fe2O3/C Lithium-Ion Battery Electrodes. *ACS Applied Materials & Interfaces*, **2015**, 7, 20736-44	9.5	33
41	Enhanced lithium storage in ZnFe2O4–C nanocomposite produced by a low-energy ball milling. *Journal of Power Sources*, **2015**, 282, 462-470	8.9	58
40	Titanium Dioxide Nanotube Films for Electrochemical Supercapacitors: Biocompatibility and Operation in an Electrolyte Based on a Physiological Fluid. *Journal of the Electrochemical Society*, **2015**, 162, A5065-A5069	3.9	29

39	Phosphorus–carbon nanocomposite anodes for lithium-ion and sodium-ion batteries. *Journal of Materials Chemistry A*, **2015**, 3, 5572-5584	13	210
38	High-efficient production of boron nitride nanosheets via an optimized ball milling process for lubrication in oil. *Scientific Reports*, **2014**, 4, 7288	4.9	96
37	Preparation of composite electrodes with carbon nanotubes for lithium-ion batteries by low-energy ball milling. *RSC Advances*, **2014**, 4, 36649-36655	3.7	11
36	Evolution of the electrochemical capacitance of transition metal oxynitrides with time: the effect of ageing and passivation. *Journal of Materials Chemistry A*, **2014**, 2, 12940-12951	13	15
35	Electrochemical investigation of sodium reactivity with nanostructured Co3O4 for sodium-ion batteries. *Chemical Communications*, **2014**, 50, 5057-60	5.8	133
34	Carbon coated Na7Fe7(PO4)6F3: A novel intercalation cathode for sodium-ion batteries. *Journal of Power Sources*, **2014**, 271, 497-503	8.9	16
33	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. *Journal of Materials Chemistry A*, **2014**, 2, 4282	13	75
32	Ball milling: a green mechanochemical approach for synthesis of nitrogen doped carbon nanoparticles. *Nanoscale*, **2013**, 5, 7970-6	7.7	104
31	Electrochemical reactivity of ilmenite FeTiO3, its nanostructures and oxide-carbon nanocomposites with lithium. *Electrochimica Acta*, **2013**, 108, 127-134	6.7	24
30	Self-assembly of core-satellite gold nanoparticles for colorimetric detection of copper ions. *Analytica Chimica Acta*, **2013**, 803, 128-34	6.6	71
29	Clusters of ~LiFeO2 nanoparticles incorporated into multi-walled carbon nanotubes: a lithium-ion battery cathode with enhanced lithium storage properties. *Physical Chemistry Chemical Physics*, **2013**, 15, 20371-8	3.6	14
28	Expanding the applications of the ilmenite mineral to the preparation of nanostructures: TiO2 nanorods and their photocatalytic properties in the degradation of oxalic acid. *Chemistry - A European Journal*, **2013**, 19, 1091-6	4.8	22
27	Bi-Functional Water/Oxygen Electrocatalyst Based on PdO-RuO2Composites. *Journal of the Electrochemical Society*, **2013**, 160, H74-H79	3.9	17
26	Crystal phase engineered quantum wells in ZnO nanowires. *Nanotechnology*, **2013**, 24, 215202	3.4	14
25	Enhanced lithium storage in Fe2O3-SnO2-C nanocomposite anode with a breathable structure. *Nanoscale*, **2013**, 5, 4910-6	7.7	50
24	Nanoporous transition metal oxynitrides as catalysts for the oxygen reduction reaction. *Electrochimica Acta*, **2013**, 103, 151-160	6.7	21
23	Bimetallic molybdenum tungsten oxynitride: structure and electrochemical properties. *Journal of Materials Chemistry A*, **2013**, 1, 7889	13	28
22	Electrochemical capacitance of mesoporous tungsten oxynitride in aqueous electrolytes. *Journal of Power Sources*, **2012**, 220, 298-305	8.9	36

21	Ilmenite FeTiO3 Nanoflowers and Their Pseudocapacitance. *Journal of Physical Chemistry C*, **2011**, 115, 17297-17302	3.8	42
20	MoO3 nanoparticles dispersed uniformly in carbon matrix: a high capacity composite anode for Li-ion batteries. *Journal of Materials Chemistry*, **2011**, 21, 9350		120
19	Large-scale mechanical peeling of boron nitride nanosheets by low-energy ball milling. *Journal of Materials Chemistry*, **2011**, 21, 11862		301
18	Porous TiO2 with a controllable bimodal pore size distribution from natural ilmenite. *CrystEngComm*, **2011**, 13, 1322-1327	3.3	17
17	Single deep ultraviolet light emission from boron nitride nanotube film. *Applied Physics Letters*, **2010**, 97, 141104	3.4	40
16	Structure and Capacitive Properties of Porous Nanocrystalline VN Prepared by Temperature-Programmed Ammonia Reduction of V2O5. *Chemistry of Materials*, **2010**, 22, 914-921	9.6	134
15	Synthesis of boron nitride nanotubes by boron ink annealing. *Nanotechnology*, **2010**, 21, 105601	3.4	54
14	Ball milled SnO2: a modified vapor source for growing nanostructures. *Journal of Alloys and Compounds*, **2010**, 504, S315-S318	5.7	9
13	Boron nitride nanotube films grown from boron ink painting. *Journal of Materials Chemistry*, **2010**, 20, 9679		53
12	Air-assisted growth of tin dioxide nanoribbons. *Journal of Nanoscience and Nanotechnology*, **2010**, 10, 5015-9	1.3	4
11	Growth of V2O5 nanorods from ball-milled powders and their performance in cathodes and anodes of lithium-ion batteries. *Journal of Solid State Electrochemistry*, **2010**, 14, 1841-1846	2.6	35
10	Nanofibrous carbon with herringbone structure as an effective catalyst of the H2S selective oxidation. *Carbon*, **2010**, 48, 2004-2012	10.4	32
9	New effective catalysts based on mesoporous nanofibrous carbon for selective oxidation of hydrogen sulfide. *Applied Catalysis B: Environmental*, **2009**, 85, 180-191	21.8	29
8	Titanium Oxide Nanorods Extracted From Ilmenite Sands. *Crystal Growth and Design*, **2009**, 9, 1240-1244	3.5	19
7	V2O5 Nanorods with Improved Cycling Stability for Li Intercalation. *Materials Research Society Symposia Proceedings*, **2009**, 1170, 76		
6	Anomalous evaporation behavior of ZnO powder milled mechanically under high-energy conditions. *Materials Letters*, **2008**, 62, 715-718	3.3	10
5	Reactive ball milling to produce nanocrystalline ZnO. *Materials Letters*, **2008**, 62, 4047-4049	3.3	34
4	A Novel Approach for Real Mass Transformation from V2O5 Particles to Nanorods. *Crystal Growth and Design*, **2008**, 8, 3661-3665	3.5	47

3	Unusual corrugated nanowires of zinc oxide. *Journal of Crystal Growth*, **2008**, 310, 3139-3143	1.6	14
2	Efficient production of ZnO nanowires by a ball milling and annealing method. *Nanotechnology*, **2007**, 18, 175604	3.4	35
1	Catalytic properties of nanofibrous carbon in selective oxidation of hydrogen sulphide. *Particuology: Science and Technology of Particles*, **2006**, 4, 70-72		8