

Kostiantyn Kravchyk

List of Publications by Year in Descending Order

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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.

65 papers	2,803 citations	27 h-index	52 g-index
69 ext. papers	3,344 ext. citations	9.2 avg, IF	5.86 L-index

#	Paper	IF	Citations
65	Perspective on design and technical challenges of Li-garnet solid-state batteries.. <i>Science and Technology of Advanced Materials</i> , 2022 , 23, 2018919	7.1	2
64	On the feasibility of all-solid-state batteries with LLZO as a single electrolyte.. <i>Scientific Reports</i> , 2022 , 12, 1177	4.9	4
63	Silicon oxycarbide-tin nanocomposite derived from a UV crosslinked single source preceramic precursor as high-performance anode materials for Li-ion batteries. <i>Applied Materials Today</i> , 2022 , 27, 101424	6.6	0
62	Break-Even Analysis of All-Solid-State Batteries with Li-Garnet Solid Electrolytes. <i>ACS Energy Letters</i> , 2021 , 6, 2202-2207	20.1	11
61	An overview and prospective on Al and Al-ion battery technologies. <i>Journal of Power Sources</i> , 2021 , 481, 228870	8.9	36
60	Laser Patterning of High-Mass-Loading Graphite Anodes for High-Performance Li-Ion Batteries. <i>Batteries and Supercaps</i> , 2021 , 4, 464-468	5.6	5
59	AlCl ₃ -Saturated Ionic Liquid Anolyte with an Excess of AlCl ₃ for Al/Graphite Dual-Ion Batteries. <i>Batteries and Supercaps</i> , 2021 , 4, 929-933	5.6	1
58	Silicon oxycarbide-antimony nanocomposites for high-performance Li-ion battery anodes. <i>Nanoscale</i> , 2020 , 12, 13540-13547	7.7	11
57	Colloidal Antimony Sulfide Nanoparticles as a High-Performance Anode Material for Li-ion and Na-ion Batteries. <i>Scientific Reports</i> , 2020 , 10, 2554	4.9	16
56	Challenges and benefits of post-lithium-ion batteries. <i>New Journal of Chemistry</i> , 2020 , 44, 1677-1683	3.6	66
55	Structural Evolution of Iron(III) Trifluoroacetate upon Thermal Decomposition: Chains, Layers, and Rings. <i>Chemistry of Materials</i> , 2020 , 32, 2482-2488	9.6	3
54	Limitations of Chloroaluminate Ionic Liquid Anolytes for Aluminum/Graphite Dual-Ion Batteries. <i>ACS Energy Letters</i> , 2020 , 5, 545-549	20.1	26
53	The Pitfalls in Nonaqueous Electrochemistry of Al-Ion and Al Dual-Ion Batteries. <i>Advanced Energy Materials</i> , 2020 , 10, 2002151	21.8	25
52	Monodisperse CoSb nanocrystals as high-performance anode material for Li-ion batteries. <i>Chemical Communications</i> , 2020 , 56, 13872-13875	5.8	1
51	Building better dual-ion batteries. <i>MRS Energy & Sustainability</i> , 2020 , 7, 1	2.2	2
50	Aluminum electrolytes for Al dual-ion batteries. <i>Communications Chemistry</i> , 2020 , 3,	6.3	20
49	Building better all-solid-state batteries with Li-garnet solid electrolytes and metalloid anodes. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 21299-21308	13	29

48	Anatase TiO ₂ Nanorods as Cathode Materials for Aluminum-Ion Batteries. <i>ACS Applied Nano Materials</i> , 2019 , 2, 6428-6435	5.6	29
47	Zeolite-Templated Carbon as a Stable, High Power Magnesium-Ion Cathode Material. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 39902-39909	9.5	13
46	Copper sulfide nanoparticles as high-performance cathode materials for Mg-ion batteries. <i>Scientific Reports</i> , 2019 , 9, 7988	4.9	42
45	Transition metal trifluoroacetates (M = Fe, Co, Mn) as precursors for uniform colloidal metal difluoride and phosphide nanoparticles. <i>Scientific Reports</i> , 2019 , 9, 6613	4.9	6
44	Zeolite-Templated Carbon as the Cathode for a High Energy Density Dual-Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 17686-17696	9.5	27
43	Overcoming the High-Voltage Limitations of Li-Ion Batteries Using a Titanium Nitride Current Collector. <i>ACS Applied Energy Materials</i> , 2019 , 2, 974-978	6.1	10
42	Rechargeable Dual-Ion Batteries with Graphite as a Cathode: Key Challenges and Opportunities. <i>Advanced Energy Materials</i> , 2019 , 9, 1901749	21.8	75
41	A high-voltage concept with sodium-ion conducting β -alumina for magnesium-sodium dual-ion batteries. <i>Communications Chemistry</i> , 2019 , 2,	6.3	13
40	Silicon Oxycarbide-Tin Nanocomposite as a High-Power-Density Anode for Li-Ion Batteries. <i>Advanced Science</i> , 2019 , 6, 1901220	13.6	16
39	Silicon Oxycarbide: Silicon Oxycarbide-Tin Nanocomposite as a High-Power-Density Anode for Li-Ion Batteries (Adv. Sci. 19/2019). <i>Advanced Science</i> , 2019 , 6, 1970116	13.6	0
38	Polypyrenes as High-Performance Cathode Materials for Aluminum Batteries. <i>Advanced Materials</i> , 2018 , 30, e1705644	24	122
37	Popcorn-Shaped Fe ₃ O ₄ (W ₆₀) Nanoparticles from a Single-Source Precursor: Colloidal Synthesis and Magnetic Properties. <i>Chemistry of Materials</i> , 2018 , 30, 1249-1256	9.6	19
36	Aluminum Chloride-Graphite Batteries with Flexible Current Collectors Prepared from Earth-Abundant Elements. <i>Advanced Science</i> , 2018 , 5, 1700712	13.6	60
35	Monodisperse CoSn and FeSn nanocrystals as high-performance anode materials for lithium-ion batteries. <i>Nanoscale</i> , 2018 , 10, 6827-6831	7.7	41
34	NaFeF ₃ Nanoplates as Low-Cost Sodium and Lithium Cathode Materials for Stationary Energy Storage. <i>Chemistry of Materials</i> , 2018 , 30, 1825-1829	9.6	26
33	Ni-Al-Cr superalloy as high temperature cathode current collector for advanced thin film Li batteries.. <i>RSC Advances</i> , 2018 , 8, 20304-20313	3.7	14
32	Colloidal Bismuth Nanocrystals as a Model Anode Material for Rechargeable Mg-Ion Batteries: Atomistic and Mesoscale Insights. <i>ACS Nano</i> , 2018 , 12, 8297-8307	16.7	41
31	High-energy-density dual-ion battery for stationary storage of electricity using concentrated potassium fluorosulfonylimide. <i>Nature Communications</i> , 2018 , 9, 4469	17.4	140

30	SnP nanocrystals as anode materials for Na-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 10958-10963	16.7	119
29	Zeolite-Templated Carbon as an Ordered Microporous Electrode for Aluminum Batteries. <i>ACS Nano</i> , 2017 , 11, 1911-1919	16.7	119
28	Efficient Aluminum Chloride-Natural Graphite Battery. <i>Chemistry of Materials</i> , 2017 , 29, 4484-4492	9.6	157
27	Chromium nitride as a stable cathode current collector for all-solid-state thin film Li-ion batteries. <i>RSC Advances</i> , 2017 , 7, 26960-26967	3.7	8
26	Direct Synthesis of Bulk Boron-Doped Graphitic Carbon. <i>Chemistry of Materials</i> , 2017 , 29, 3211-3218	9.6	40
25	Nanocrystalline FeF ₃ and MF ₂ (M = Fe, Co, and Mn) from metal trifluoroacetates and their Li(Na)-ion storage properties. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 7383-7393	13	42
24	Kish Graphite Flakes as a Cathode Material for an Aluminum Chloride-Graphite Battery. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 28478-28485	9.5	83
23	Efficient and Inexpensive Sodium-Magnesium Hybrid Battery. <i>Chemistry of Materials</i> , 2015 , 27, 7452-7458	9.6	81
22	Colloidal BiF ₃ nanocrystals: a bottom-up approach to conversion-type Li-ion cathodes. <i>Nanoscale</i> , 2015 , 7, 16601-5	7.7	17
21	Monodisperse SnSb nanocrystals for Li-ion and Na-ion battery anodes: synergy and dissonance between Sn and Sb. <i>Nanoscale</i> , 2015 , 7, 455-9	7.7	118
20	Evaluation of Metal Phosphide Nanocrystals as Anode Materials for Na-ion Batteries. <i>Chimia</i> , 2015 , 69, 724-728	1.3	35
19	Ionic and electronic conductivity of 3 mol% Fe ₂ O ₃ -substituted cubic yttria-stabilized ZrO ₂ (YSZ) and scandia-stabilized ZrO ₂ (ScSZ). <i>Solid State Ionics</i> , 2014 , 262, 517-521	3.3	22
18	Li ₃ xLa _{2/3-x} TiO ₃ nanoparticles with different morphologies and self-organization, obtained from simple solution precipitation methods. <i>Materials Letters</i> , 2014 , 137, 182-187	3.3	1
17	Colloidal tin-germanium nanorods and their Li-ion storage properties. <i>ACS Nano</i> , 2014 , 8, 2360-8	16.7	62
16	Unraveling the core-shell structure of ligand-capped Sn/SnO _x nanoparticles by surface-enhanced nuclear magnetic resonance, Mössbauer, and X-ray absorption spectroscopies. <i>ACS Nano</i> , 2014 , 8, 2639-48	16.7	81
15	Monodisperse colloidal gallium nanoparticles: synthesis, low temperature crystallization, surface plasmon resonance and Li-ion storage. <i>Journal of the American Chemical Society</i> , 2014 , 136, 12422-30	16.4	87
14	Monodisperse antimony nanocrystals for high-rate Li-ion and Na-ion battery anodes: nano versus bulk. <i>Nano Letters</i> , 2014 , 14, 1255-62	11.5	380
13	Monodisperse and inorganically capped Sn and Sn/SnO ₂ nanocrystals for high-performance Li-ion battery anodes. <i>Journal of the American Chemical Society</i> , 2013 , 135, 4199-202	16.4	314

12	Compatibility of proton conducting La ₆ WO ₁₂ electrolyte with standard cathode materials. <i>Solid State Ionics</i> , 2012 , 216, 19-24	3.3	32
11	Rare earth effect on conductivity and stability properties of doped barium indates as potential proton-conducting fuel cell electrolytes. <i>Solid State Ionics</i> , 2012 , 216, 11-14	3.3	16
10	Ionic and electronic conductivity of 3mol% Fe ₂ O ₃ -substituted cubic Y-stabilized ZrO ₂ . <i>Solid State Ionics</i> , 2012 , 226, 53-58	3.3	12
9	Metallic Nanoparticles and Proton Conductivity: Improving Proton Conductivity of BaCe _{0.9} Y _{0.1} O ₃ Using a Catalytic Approach. <i>Chemistry of Materials</i> , 2012 , 24, 4641-4646	9.6	17
8	Metallic Nanoparticles and Proton Conductivity: Improving Proton Conductivity of BaCe _{0.9} Y _{0.1} O ₃ and La _{0.75} Sr _{0.25} Cr _{0.5} Mn _{0.5} O ₃ by Ni-doping. <i>ECS Transactions</i> , 2012 , 45, 143-154	1	6
7	Cathode materials for La _{0.995} Ca _{0.005} NbO ₄ proton ceramic electrolyte. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 13059-13066	6.7	15
6	Compatibility of La ₂ O ₃ ·7(BO ₃) ₈ electrolyte with standard cathode materials for use in proton conducting solid oxide fuel cells. <i>Journal of Power Sources</i> , 2011 , 196, 7435-7441	8.9	10
5	Spontaneous fractal ordering of zirconium oxide nanoparticles during synthesis from solution. <i>Journal of the European Ceramic Society</i> , 2010 , 30, 141-145	6	4
4	Effect of synthesis conditions on the fractal structure of yttrium-stabilized zirconium dioxide. <i>Journal of Non-Crystalline Solids</i> , 2009 , 355, 2557-2561	3.9	5
3	Mössbauer and X-ray Diffraction Studies of Cubic Solid Solutions of the ZrO ₂ /Y ₂ O ₃ /Fe ₂ O ₃ System. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 3914-3919	3.8	8
2	Influence of the Chemical Composition on Structural Properties and Electrical Conductivity of Y ₂ O ₃ /ZrO ₂ . <i>Chemistry of Materials</i> , 2007 , 19, 5179-5184	9.6	16
1	Building a Better Li-Garnet Solid Electrolyte/Metallic Li Interface with Antimony. <i>Advanced Energy Materials</i> , 2010 , 202086	21.8	16