

Li-Qiang Xu

List of Publications by Year in descending order

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115
papers

5,879
citations

53794

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85541

71
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117
all docs

117
docs citations

117
times ranked

6886
citing authors

#	ARTICLE	IF	CITATIONS
1	Facile Synthesis of Hierarchical Mesoporous Honeycomb-like NiO for Aqueous Asymmetric Supercapacitors. ACS Applied Materials & Interfaces, 2015, 7, 19930-19940.	8.0	200
2	In-situ rooting ZnSe/N-doped hollow carbon architectures as high-rate and long-life anode materials for half/full sodium-ion and potassium-ion batteries. Energy Storage Materials, 2019, 23, 35-45.	18.0	189
3	Sandwich-like Ni ₂ P nanoarray/nitrogen-doped graphene nanoarchitecture as a high-performance anode for sodium and lithium ion batteries. Energy Storage Materials, 2018, 15, 234-241.	18.0	179
4	Co ₄ N nanoparticles encapsulated in N-doped carbon box as tri-functional catalyst for Zn-air battery and overall water splitting. Applied Catalysis B: Environmental, 2020, 275, 119104.	20.2	159
5	Fe-MOF-Derived Efficient ORR/OER Bifunctional Electrocatalyst for Rechargeable Zinc-Air Batteries. ACS Applied Materials & Interfaces, 2020, 12, 44710-44719.	8.0	152
6	Cobalt- and Cadmium-Based Metal-Organic Frameworks as High-Performance Anodes for Sodium Ion Batteries and Lithium Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 7160-7168.	8.0	150
7	Nanotubular Mesoporous PdCu Bimetallic Electrocatalysts toward Oxygen Reduction Reaction. Chemistry of Materials, 2009, 21, 3110-3116.	6.7	147
8	Fabrication of hierarchical porous MnCo ₂ O ₄ and CoMn ₂ O ₄ microspheres composed of polyhedral nanoparticles as promising anodes for long-life LIBs. Journal of Materials Chemistry A, 2015, 3, 14298-14306.	10.3	143
9	Double-Shell Ni-Fe-P/N-Doped Carbon Nanobox Derived from a Prussian Blue Analogue as an Electrode Material for K-Ion Batteries and Li-S Batteries. ACS Energy Letters, 2019, 4, 1496-1504.	17.4	138
10	Ni _{1.03} Hollow Spheres and Cages as Superhigh Rate Capacity and Stable Anode Materials for Half/Full Sodium-Ion Batteries. ACS Nano, 2018, 12, 8277-8287.	14.6	127
11	A multi-shelled CoP nanosphere modified separator for highly efficient Li-S batteries. Nanoscale, 2018, 10, 13694-13701.	5.6	116
12	Solvothermal preparation of tin phosphide as a long-life anode for advanced lithium and sodium ion batteries. Journal of Power Sources, 2016, 304, 346-353.	7.8	111
13	Rational fabrication of CoS ₂ /Co ₄ S ₃ @N-doped carbon microspheres as excellent cycling performance anode for half/full sodium ion batteries. Energy Storage Materials, 2020, 25, 679-686.	18.0	111
14	Facile fabrication of hierarchical porous rose-like NiCo ₂ O ₄ nanoflake/MnCo ₂ O ₄ nanoparticle composites with enhanced electrochemical performance for energy storage. Journal of Materials Chemistry A, 2015, 3, 16142-16149.	10.3	106
15	Willow-Leaf-Like ZnSe@N-Doped Carbon Nanoarchitecture as a Stable and High-Performance Anode Material for Sodium-Ion and Potassium-Ion Batteries. Small, 2020, 16, e2004580.	10.0	106
16	Branched Mesoporous Mn ₃ O ₄ Nanorods: Facile Synthesis and Catalysis in the Degradation of Methylene Blue. Chemistry - A European Journal, 2012, 18, 5319-5324.	3.3	102
17	Cobalt-Doped Vanadium Nitride Yolk-Shell Nanospheres @ Carbon with Physical and Chemical Synergistic Effects for Advanced Li-S Batteries. ACS Applied Materials & Interfaces, 2018, 10, 11642-11651.	8.0	102
18	Conductive and Polar Titanium Boride as a Sulfur Host for Advanced Lithium-Sulfur Batteries. Chemistry of Materials, 2018, 30, 6969-6977.	6.7	101

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19	A novel route to hollow and solid carbon spheres. <i>Carbon</i> , 2005, 43, 1090-1092.	10.3	98
20	Formation, Characterization, and Magnetic Properties of Fe ₃ O ₄ Nanowires Encapsulated in Carbon Microtubes. <i>Journal of Physical Chemistry B</i> , 2004, 108, 10859-10862.	2.6	93
21	Niobium Diboride Nanoparticles Accelerating Polysulfide Conversion and Directing Li ₂ S Nucleation Enabled High Areal Capacity Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2022, 16, 4947-4960.	14.6	88
22	Coral-like Ni _x Co _{1-x} Se ₂ for Na-ion battery with ultralong cycle life and ultrahigh rate capability. <i>Journal of Materials Chemistry A</i> , 2019, 7, 3933-3940.	10.3	85
23	Ultrathin mesoporous F-doped Ni(OH) ₂ nanosheets as an efficient electrode material for water splitting and supercapacitors. <i>Journal of Materials Chemistry A</i> , 2019, 7, 9656-9664.	10.3	85
24	MIL-100(V) and MIL-100(V)/rGO with various valence states of vanadium ions as sulfur cathode hosts for lithium-sulfur batteries. <i>Nano Research</i> , 2017, 10, 344-353.	10.4	82
25	Titanium nitride hollow nanospheres with strong lithium polysulfide chemisorption as sulfur hosts for advanced lithium-sulfur batteries. <i>Nano Research</i> , 2018, 11, 4302-4312.	10.4	81
26	Hierarchical porous metal ferrite ball-in-ball hollow spheres: General synthesis, formation mechanism, and high performance as anode materials for Li-ion batteries. <i>Nano Research</i> , 2014, 7, 1116-1127.	10.4	80
27	Emerging two-dimensional nanomaterials for electrochemical nitrogen reduction. <i>Chemical Society Reviews</i> , 2021, 50, 12744-12787.	38.1	75
28	Ultrafine Co _{1-x} S nanoparticles embedded in a nitrogen-doped porous carbon hollow nanosphere composite as an anode for superb sodium-ion batteries and lithium-ion batteries. <i>Nanoscale</i> , 2018, 10, 2804-2811.	5.6	69
29	A Co-pyrolysis Method to Boron Nitride Nanotubes at Relative Low Temperature. <i>Chemistry of Materials</i> , 2003, 15, 2675-2680.	6.7	68
30	A novel polyoxometalate-based hybrid containing a 2D [CoMo ₈ O ₂₆] ²⁻ structure as the anode for lithium-ion batteries. <i>Chemical Communications</i> , 2017, 53, 10560-10563.	4.1	67
31	High yield synthesis of novel boron nitride submicro-boxes and their photocatalytic application under visible light irradiation. <i>Catalysis Science and Technology</i> , 2011, 1, 1159.	4.1	62
32	Synthesis, characterization and application of carbon nanocages as anode materials for high-performance lithium-ion batteries. <i>RSC Advances</i> , 2012, 2, 284-291.	3.6	62
33	Horsetail-derived Si@N-doped carbon as low-cost and long cycle life anode for Li-ion half/full cells. <i>Electrochimica Acta</i> , 2018, 264, 173-182.	5.2	61
34	Synthesis, properties and applications of nanoscale nitrides, borides and carbides. <i>Nanoscale</i> , 2012, 4, 4900.	5.6	60
35	Au-Ag alloy nanoporous nanotubes. <i>Nano Research</i> , 2009, 2, 386-393.	10.4	58
36	Conductive cobalt doped niobium nitride porous spheres as an efficient polysulfide convertor for advanced lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 6276-6282.	10.3	58

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37	Mn-Doped γ -FeOOH Nanorods and γ -Fe ₂ O ₃ Mesoporous Nanorods: Facile Synthesis and Applications as High Performance Anodes for LIBs. <i>Advanced Electronic Materials</i> , 2015, 1, 140057.	5.1	55
38	In-situ Nano-Crystallization and Solvation Modulation to Promote Highly Stable Anode Involving Alloy/Dealloy for Potassium Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 15381-15389.	13.8	54
39	Convenient synthesis and applications of gram scale boron nitride nanosheets. <i>Catalysis Science and Technology</i> , 2011, 1, 1119.	4.1	53
40	A general route for the convenient synthesis of crystalline hexagonal boron nitride micromesh at mild temperature. <i>Journal of Materials Chemistry</i> , 2009, 19, 1989.	6.7	51
41	Cu ₃ P/RGO Nanocomposite as a New Anode for Lithium-Ion Batteries. <i>Scientific Reports</i> , 2016, 6, 35189.	3.3	51
42	General synthesis of carbon nanocages and their adsorption of toxic compounds from cigarette smoke. <i>Nanoscale</i> , 2011, 3, 3251.	5.6	49
43	Controllable synthesis of hierarchical ZnSn(OH) ₆ and Zn ₂ SnO ₄ hollow nanospheres and their applications as anodes for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 17979-17985.	10.3	49
44	Porous organic polymer/RGO composite as high performance cathode for half and full sodium ion batteries. <i>Journal of Power Sources</i> , 2017, 343, 424-430.	7.8	48
45	Bimetallic nickel cobalt sulfides with hierarchical coralliform architecture for ultrafast and stable Na-ion storage. <i>Nano Research</i> , 2021, 14, 4014-4024.	10.4	48
46	Manipulating Electrocatalytic Polysulfide Redox Kinetics by 1D Core-Shell Like Composite for Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	47
47	Fabrication of Various V ₂ O ₅ Hollow Microspheres as Excellent Cathode for Lithium Storage and the Application in Full Cells. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 17205-17211.	8.0	46
48	Iron Selenide-Based Heterojunction Construction and Defect Engineering for Fast Potassium/Sodium-Ion Storage. <i>Small</i> , 2022, 18, e2107252.	10.0	46
49	Ce-doped γ -FeOOH nanorods as high-performance anode material for energy storage. <i>Journal of Power Sources</i> , 2016, 327, 423-431.	7.8	45
50	Mesoporous Tin-Based Oxide Nanospheres/Reduced Graphene Composites as Advanced Anodes for Lithium-Ion Half/Full Cells and Sodium-Ion Batteries. <i>Chemistry - A European Journal</i> , 2017, 23, 13724-13733.	3.3	45
51	Nano-CuO coated LiCoO ₂ : Synthesis, improved cycling stability and good performance at high rates. <i>Electrochimica Acta</i> , 2011, 56, 9027-9031.	5.2	44
52	A versatile route for the convenient synthesis of rare-earth and alkaline-earth hexaborides at mild temperatures. <i>CrystEngComm</i> , 2010, 12, 3923.	2.6	43
53	In-situ controllable synthesis and performance investigation of carbon-coated monoclinic and hexagonal LiMnBO ₃ composites as cathode materials in lithium-ion batteries. <i>Journal of Power Sources</i> , 2013, 236, 54-60.	7.8	40
54	Dandelion-Like Bi ₂ S ₃ /rGO hierarchical microspheres as high-performance anodes for potassium-ion and half/full sodium-ion batteries. <i>Nano Research</i> , 2021, 14, 4696-4703.	10.4	39

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55	Phosphorus-modified Fe ₄ N@N,P co-doped graphene as an efficient sulfur host for high-performance lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 6538-6546.	10.3	37
56	Yolk-shell structured CoSe ₂ /C nanospheres as multifunctional anode materials for both full/half sodium-ion and full/half potassium-ion batteries. <i>Nanoscale</i> , 2021, 13, 10385-10392.	5.6	36
57	In Situ Synthesis, Magnetic Property, and Formation Mechanism of Fe ₃ O ₄ Particles Encapsulated in 1D Bamboo-Shaped Carbon Microtubes. <i>Journal of Physical Chemistry B</i> , 2006, 110, 3871-3875.	2.6	34
58	Multifunctional vanadium nitride@N-doped carbon composites for kinetically enhanced lithium-sulfur batteries. <i>New Journal of Chemistry</i> , 2018, 42, 5109-5116.	2.8	34
59	Regulating polysulfide intermediates by ultrathin Co-Bi nanosheet electrocatalyst in lithium-sulfur batteries. <i>Nano Today</i> , 2021, 40, 101246.	11.9	34
60	Ultrafine zirconium boride nanoparticles constructed bidirectional catalyst for ultrafast and long-lived lithium-sulfur batteries. <i>Energy Storage Materials</i> , 2022, 45, 130-141.	18.0	34
61	A convenient catalytic approach to synthesize straight boron nitride nanotubes using synergic nitrogen source. <i>Chemical Physics Letters</i> , 2007, 440, 253-258.	2.6	33
62	A hexangular ring-core NiCo ₂ O ₄ porous nanosheet/NiO nanoparticle composite as an advanced anode material for LIBs and catalyst for CO oxidation applications. <i>Chemical Communications</i> , 2015, 51, 14768-14771.	4.1	32
63	Selective Synthesis of 3C-SiC Hollow Nanospheres and Nanowires. <i>Crystal Growth and Design</i> , 2008, 8, 2431-2436.	3.0	31
64	One-dimensional manganese borate hydroxide nanorods and the corresponding manganese oxyborate nanorods as promising anodes for lithium ion batteries. <i>Nano Research</i> , 2015, 8, 554-565.	10.4	31
65	Mesoporous Mn-Sn bimetallic oxide nanocubes as long cycle life anodes for Li-ion half/full cells and sulfur hosts for Li-S batteries. <i>Nano Research</i> , 2018, 11, 3555-3566.	10.4	31
66	Sulfur-Assisted Approach for the Low-Temperature Synthesis of SiC Nanowires. <i>European Journal of Inorganic Chemistry</i> , 2008, 2008, 3883-3888.	2.0	30
67	Thermal-induced shape evolution from uniform triangular to hexagonal r-BN nanoplates. <i>Journal of Materials Chemistry</i> , 2009, 19, 8086.	6.7	30
68	Facile synthesis of one-dimensional Mn ₃ O ₄ /Zn ₂ SnO ₄ hybrid composites and their high performance as anodes for LIBs. <i>Nanoscale</i> , 2014, 6, 14221-14226.	5.6	30
69	Space-confined growth of Bi ₂ Se ₃ nanosheets encapsulated in N-doped carbon shell lollipop-like composite for full/half potassium-ion and lithium-ion batteries. <i>Nano Today</i> , 2022, 43, 101408.	11.9	30
70	A Facile Approach for the Synthesis of Uniform Hollow Carbon Nanospheres. <i>Journal of Physical Chemistry C</i> , 2008, 112, 1896-1900.	3.1	29
71	The synthesis of nanostructured SiC from waste plastics and silicon powder. <i>Nanotechnology</i> , 2009, 20, 355604.	2.6	29
72	In Situ Growth of CoS ₂ /ZnS Nanoparticles on Graphene Sheets as an Ultralong Cycling Stability Anode for Potassium Ion Storage. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 15324-15336.	8.0	27

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73	Synthesis of MnO/C composites through a solid state reaction and their transformation into MnO ₂ nanorods. <i>Journal of Alloys and Compounds</i> , 2011, 509, 6217-6221.	5.5	26
74	The formation of a layer of Fe ₃ O ₄ nanoplates between two carbon films. <i>Carbon</i> , 2007, 45, 1839-1846.	10.3	25
75	Co _{0.85} Se hollow spheres constructed of ultrathin 2D mesoporous nanosheets as a novel bifunctional-electrode for supercapacitor and water splitting. <i>Nano Research</i> , 2019, 12, 2941-2946.	10.4	25
76	Synthesis and characterization of 3C and 2H-SiC nanocrystals starting from SiO ₂ , C ₂ H ₅ OH and metallic Mg. <i>Journal of Alloys and Compounds</i> , 2009, 484, 341-346.	5.5	24
77	Additive-assisted synthesis of boride, carbide, and nitride micro/nanocrystals. <i>Journal of Solid State Chemistry</i> , 2012, 194, 219-224.	2.9	24
78	Hierarchical flower-like cobalt phosphosulfide derived from Prussian blue analogue as an efficient polysulfides adsorbent for long-life lithium-sulfur batteries. <i>Nano Research</i> , 2019, 12, 1115-1120.	10.4	24
79	Ultrahigh-Areal-Capacity Battery Anodes Enabled by Free-Standing Vanadium Nitride@N-Doped Carbon/Graphene Architecture. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 49607-49616.	8.0	24
80	General Fabrication of Boride, Carbide, and Nitride Nanocrystals via a Metal-Hydrolysis-Assisted Process. <i>Inorganic Chemistry</i> , 2017, 56, 2440-2447.	4.0	23
81	Porous honeycomb-like C ₃ N ₄ /rGO composite as host for high performance Li-S batteries. <i>Science China Materials</i> , 2019, 62, 1265-1274.	6.3	23
82	Sulfur-assisted synthesis of nitride nanocrystals. <i>Dalton Transactions</i> , 2010, 39, 2855.	3.3	22
83	Formation of Carbon Nanotubes and Cubic and Spherical Nanocages. <i>Journal of Physical Chemistry B</i> , 2004, 108, 20090-20094.	2.6	21
84	Solvothermal Synthesis of Si ₃ N ₄ Nanomaterials at a Low Temperature. <i>Journal of the American Ceramic Society</i> , 2008, 91, 1725-1728.	3.8	21
85	Hollow sphere formation by the self aggregation of perovskite fluoride NaNiF ₃ nanocrystals and the application of these spheres as an electrode in an ultrahigh performance asymmetric supercapacitor. <i>New Journal of Chemistry</i> , 2019, 43, 11959-11967.	2.8	21
86	Enteromorpha prolifera-derived Fe ₃ C/C composite as advanced catalyst for hydroxyl radical generation and efficient removal for organic dye and antibiotic. <i>Journal of Hazardous Materials</i> , 2019, 378, 120728.	12.4	21
87	Construction and electrochemical mechanism investigation of hierarchical core-shell like composite as high performance anode for potassium ion batteries. <i>Nano Research</i> , 2021, 14, 3552-3561.	10.4	21
88	A simple pyrolysis route to synthesize leaf-like carbon sheets. <i>Carbon</i> , 2010, 48, 3420-3426.	10.3	20
89	Facile synthesis of uniform h-BN nanocrystals and their application as a catalyst support towards the selective oxidation of benzyl alcohol. <i>RSC Advances</i> , 2012, 2, 10689.	3.6	20
90	Rational Design of Tungsten Selenide @ N-Doped Carbon Nanotube for High-Stable Potassium-Ion Batteries. <i>Small</i> , 2022, 18, e2104363.	10.0	20

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91	High-yield synthesis of single-crystalline 3C-SiC nanowires by a facile autoclave route. <i>Materials Letters</i> , 2007, 61, 3913-3915.	2.6	19
92	Facile Synthesis of High Electrochemical Performance Na ₂ FePO ₄ F@CNT&GN Cathode Material as Sodium Ion Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 6232-6239.	5.1	19
93	A porous polycrystalline NiCo ₂ P _x as a highly efficient host for sulfur cathodes in Li-S batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 23149-23156.	10.3	19
94	Cu _{5.5} FeS _{6.5} nanotubes—a new kind of ternary sulfide nanotube. <i>New Journal of Chemistry</i> , 2001, 25, 1359-1361.	2.8	18
95	A facile route to prepare boron nitride hollow particles at 450°C. <i>Journal of Crystal Growth</i> , 2009, 311, 3682-3686.	1.5	18
96	Hydrothermal Synthesis of Microscaled Cu@C Polyhedral Composites and Their Sensitivity to Convergent Electron Beams. <i>Langmuir</i> , 2009, 25, 6363-6367.	3.5	18
97	A self-assembly template approach to form hollow hexapod-like, flower-like and tube-like carbon materials. <i>Carbon</i> , 2005, 43, 1560-1562.	10.3	17
98	Synthesis of Uniform TiC Hollow Spheres by a Co-reduction Route at Low Temperature. <i>Journal of Physical Chemistry C</i> , 2007, 111, 16202-16206.	3.1	17
99	Co-pyrolysis synthesis of Fe ₃ BO ₆ nanorods as high performance anodes for lithium-ion batteries. <i>RSC Advances</i> , 2014, 4, 8245.	3.6	17
100	3C-SiC nanowires and micro-scaled polyhedra: Synthesis, characterization and properties. <i>Journal of Alloys and Compounds</i> , 2010, 501, 60-66.	5.5	16
101	Mesh-like LiZnBO ₃ /C composites as a prominent stable anode for lithium ion rechargeable batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 5489-5494.	10.3	13
102	Recent Development of the Synthesis and Engineering Applications of One-Dimensional Boron Nitride Nanomaterials. <i>Journal of Nanomaterials</i> , 2010, 2010, 1-16.	2.7	12
103	NaFeTiO ₄ nanorod/multi-walled carbon nanotubes composite as an anode material for sodium-ion batteries with high performances in both half and full cells. <i>Nano Research</i> , 2017, 10, 3585-3595.	10.4	12
104	Sandwich-like Ni ₂ P nanoarray/nitrogen-doped graphene nanoarchitecture as a high-performance anode for sodium and lithium ion batteries. <i>Data in Brief</i> , 2018, 20, 1999-2002.	1.0	11
105	Growth of cubic and hexagonal BN particles by using BBr ₃ , NH ₄ Br and metallic Na as reactants. <i>Diamond and Related Materials</i> , 2009, 18, 1421-1425.	3.9	10
106	Controllable synthesis, property investigation of hexagonal boron nitride micromesh and its functionalization by Ag nanoparticles. <i>Catalysis Science and Technology</i> , 2013, 3, 222-229.	4.1	10
107	Petroleum coke derived porous carbon/NiCoP with efficient reviving catalytic and adsorptive activity as sulfur host for high performance lithium-sulfur batteries. <i>Nano Research</i> , 2022, 15, 4058-4067.	10.4	10
108	In-situ Nano-Crystallization and Solvation Modulation to Promote Highly Stable Anode Involving Alloy/Dealloy for Potassium Ion Batteries. <i>Angewandte Chemie</i> , 2021, 133, 15509-15517.	2.0	7

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109	Synthesis of superconducting sphere-like Mo ₂ C nanoparticles in an autoclave. Crystal Research and Technology, 2012, 47, 467-470.	1.3	5
110	Chemical Synthesis of Aluminum Nitride Nanorods in an Autoclave at 200 Å°C. Chemistry Letters, 2009, 38, 622-623.	1.3	3
111	Interpenetrated N-rich MOF derived vesicular N-doped carbon for high performance lithium ion battery. Dalton Transactions, 2022, 51, 7817-7827.	3.3	2
112	Preferential growth of HT-LiCo _{1-x} Al _x O ₂ cathode micro-bricks via an intermediate-facilitated solid-solid-gas reaction. Journal of Power Sources, 2022, 542, 231700.	7.8	2
113	Fe ₃ BO ₅ @carbon core-shell urchin-like structures prepared via a one-step co-pyrolysis method. Materials Letters, 2011, 65, 2479-2481.	2.6	1
114	Frontispiece: In-situ Nano-Crystallization and Solvation Modulation to Promote Highly Stable Anode Involving Alloy/Dealloy for Potassium Ion Batteries. Angewandte Chemie - International Edition, 2021, 60, .	13.8	1
115	Frontispiz: In-situ Nano-Crystallization and Solvation Modulation to Promote Highly Stable Anode Involving Alloy/Dealloy for Potassium Ion Batteries. Angewandte Chemie, 2021, 133, .	2.0	0