

# Nan Zhou

## List of Publications by Year in descending order

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108  
papers

5,634  
citations

70961

41  
h-index

85405

71  
g-index

109  
all docs

109  
docs citations

109  
times ranked

5840  
citing authors

#	ARTICLE	IF	CITATIONS
1	Co-pyrolysis of different torrefied Chinese herb residues and low-density polyethylene: Kinetic and products distribution. <i>Science of the Total Environment</i> , 2022, 802, 149752.	3.9	21
2	Pulse pyrolysis of waste cooking oil over CaO: Exploration of catalyst deactivation pathway based on feedstock characteristics. <i>Applied Catalysis B: Environmental</i> , 2022, 304, 120968.	10.8	25
3	Pressurized ex-situ catalytic co-pyrolysis of polyethylene and lignin: Efficient BTEX production and process mechanism analysis. <i>Chemical Engineering Journal</i> , 2022, 431, 134122.	6.6	47
4	N, P, O-codoped biochar from phytoremediation residues: a promising cathode material for Li-S batteries. <i>Nanotechnology</i> , 2022, , .	1.3	4
5	A structured catalyst of ZSM-5/SiC foam for chemical recycling of waste plastics via catalytic pyrolysis. <i>Chemical Engineering Journal</i> , 2022, 440, 135836.	6.6	29
6	Efficient removal of sulfamethazine from irrigation water using an ultra-stable magnetic carbon composite catalyst. <i>Chemical Engineering Journal</i> , 2022, 446, 137188.	6.6	8
7	Nano-Fe <sup>1+</sup> xS embedded BCAA/Fe <sub>3</sub> O <sub>4</sub> as the stabilized catalyst for simultaneous quinclorac oxidation and Cr(VI) reduction. <i>Separation and Purification Technology</i> , 2022, 297, 121422.	3.9	7
8	Production of catalytic-upgraded pyrolysis products from oiltea camellia shell and polypropylene using NiCe-X/Al <sub>2</sub> O <sub>3</sub> and ZrO <sub>2</sub> catalyst (X=Fe, Co). <i>Fuel</i> , 2022, 325, 124812.	3.4	7
9	Products distribution during in situ and ex situ catalytic fast pyrolysis of Chinese herb residues. <i>Environmental Science and Pollution Research</i> , 2022, 29, 89235-89244.	2.7	3
10	In-situ catalytic pyrolysis of waste tires over clays for high quality pyrolysis products. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 6937-6944.	3.8	20
11	Applications of calcium oxide-based catalysts in biomass pyrolysis/gasification – A review. <i>Journal of Cleaner Production</i> , 2021, 291, 125826.	4.6	80
12	Study on the difference between in-situ and ex-situ catalytic pyrolysis of oily sludge. <i>Environmental Science and Pollution Research</i> , 2021, 28, 50500-50509.	2.7	5
13	The mechanism transformation of ramie biochar's cadmium adsorption by aging. <i>Bioresource Technology</i> , 2021, 330, 124947.	4.8	35
14	Catalytic fast pyrolysis of low density polyethylene into naphtha with high selectivity by dual-catalyst tandem catalysis. <i>Science of the Total Environment</i> , 2021, 771, 144995.	3.9	35
15	Catalytic pyrolysis of plastic wastes in a continuous microwave assisted pyrolysis system for fuel production. <i>Chemical Engineering Journal</i> , 2021, 418, 129412.	6.6	148
16	Chemical upcycling of waste polyolefinic plastics to low-carbon synthetic naphtha for closing the plastic use loop. <i>Science of the Total Environment</i> , 2021, 782, 146897.	3.9	19
17	High-efficiency degradation of quinclorac via peroxymonosulfate activated by N-doped CoFe <sub>2</sub> O <sub>4</sub> /FeO@CEDTA hybrid catalyst. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 102, 177-185.	2.9	19
18	A Cost- and Energy Density-Competitive Lithium-Sulfur Battery. <i>Energy Storage Materials</i> , 2021, 41, 588-598.	9.5	30

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19	Pyrolysis-catalysis for waste polyolefin conversion into low aromatic naphtha. <i>Energy Conversion and Management</i> , 2021, 245, 114578.	4.4	37
20	Torrefied herb residues in nitrogen, air and oxygen atmosphere: Thermal decomposition behavior and pyrolytic products characters. <i>Bioresource Technology</i> , 2021, 342, 125991.	4.8	9
21	Interconnected structure Si@TiO <sub>2</sub> -B/CNTs composite anode applied for high-energy lithium-ion batteries. <i>Applied Surface Science</i> , 2020, 500, 144026.	3.1	33
22	Development of biochar-based nanocatalysts for tar cracking/reforming during biomass pyrolysis and gasification. <i>Bioresource Technology</i> , 2020, 298, 122263.	4.8	116
23	High thermal stability and blue-violet emitting phosphor CaYAlO <sub>4</sub> :Ti <sup>4+</sup> with enhanced emission by Ca <sup>2+</sup> vacancies. <i>Journal of Rare Earths</i> , 2020, 38, 227-233.	2.5	11
24	Engineering cation vacancies to improve the luminescence properties of Ca <sub>14</sub> Al <sub>10</sub> Zn <sub>6</sub> O <sub>35</sub> : Mn <sup>4+</sup> phosphors for LED plant lamp. <i>Journal of the American Ceramic Society</i> , 2020, 103, 1798-1808.	1.9	32
25	Cobalt (0/II) incorporated N-doped porous carbon as effective heterogeneous peroxy monosulfate catalyst for quinolone degradation. <i>Journal of Colloid and Interface Science</i> , 2020, 563, 197-206.	5.0	55
26	Fast microwave-assisted pyrolysis of wastes for biofuels production – A review. <i>Bioresource Technology</i> , 2020, 297, 122480.	4.8	137
27	The effect of different particle sizes and HCl-modified kaolin on catalytic pyrolysis characteristics of reworked polypropylene plastics. <i>Energy</i> , 2020, 213, 119080.	4.5	27
28	Applications of microwave energy in gas production and tar removal during biomass gasification. <i>Sustainable Energy and Fuels</i> , 2020, 4, 5927-5946.	2.5	23
29	Effect of lime mud on the reaction kinetics and thermodynamics of biomass pyrolysis. <i>Bioresource Technology</i> , 2020, 310, 123475.	4.8	30
30	Effect of Calcium-Based Catalysts on Pyrolysis Liquid Products from Municipal Sludge. <i>Bioenergy Research</i> , 2020, 13, 887-895.	2.2	6
31	Syngas production from biomass pyrolysis in a continuous microwave assisted pyrolysis system. <i>Bioresource Technology</i> , 2020, 314, 123756.	4.8	69
32	The preparation of N, S, P self-doped and oxygen functionalized porous carbon via aerophilic interface reaction for high-performance supercapacitors. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 12961-12972.	1.1	8
33	Characterization, bioavailability and protective effects of phenolic-rich extracts from almond hulls against pro-oxidant induced toxicity in Caco-2 cells. <i>Food Chemistry</i> , 2020, 322, 126742.	4.2	20
34	Recent advances in improving lignocellulosic biomass-based bio-oil production. <i>Journal of Analytical and Applied Pyrolysis</i> , 2020, 149, 104845.	2.6	59
35	Exploration of bluish violet-emitting phosphor Ca <sub>3</sub> Al <sub>4</sub> Zn <sub>10</sub> :Ti <sup>4+</sup> with enhanced emission by Ca <sup>2+</sup> vacancies. <i>Journal of the American Ceramic Society</i> , 2019, 102, 1843-1851.	1.9	10
36	Synthesis and photoluminescence properties of novel red-emitting phosphor SrAl <sub>3</sub> BO <sub>7</sub> :Mn <sup>4+</sup> with enhanced emission by Mg <sup>2+</sup> /Zn <sup>2+</sup> /Ca <sup>2+</sup> incorporation for plant growth LED lighting. <i>Ceramics International</i> , 2019, 45, 23528-23539.	2.3	31

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37	Effect of pyrolysis condition on the adsorption mechanism of heavy metals on tobacco stem biochar in competitive mode. <i>Environmental Science and Pollution Research</i> , 2019, 26, 26947-26962.	2.7	18
38	Preparation and application of perovskite-type oxides for electrocatalysis in oxygen/air electrodes. <i>Journal of Central South University</i> , 2019, 26, 1387-1401.	1.2	5
39	Catalytic microwave-assisted pyrolysis of plastic waste over NiO and HY for gasoline-range hydrocarbons production. <i>Energy Conversion and Management</i> , 2019, 196, 1316-1325.	4.4	172
40	Plasma <i>in situ</i> gas-liquid nitrogen fixation using concentrated high-intensity electric field. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 494001.	1.3	24
41	Novel orange-red emitting phosphor Sr <sub>8</sub> ZnY(PO <sub>4</sub> ) <sub>7</sub> :Sm <sup>3+</sup> with enhanced emission based on Mg <sup>2+</sup> and Al <sup>3+</sup> incorporation for plant growth LED lighting. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 104, 360-368.	2.7	31
42	Highly-sensitive and selective determination of bisphenol A in milk samples based on self-assembled graphene nanoplatelets-multiwalled carbon nanotube-chitosan nanostructure. <i>Materials Science and Engineering C</i> , 2019, 103, 109848.	3.8	31
43	Sustainable Non-Thermal Plasma-Assisted Nitrogen Fixation Synergistic Catalysis. <i>ChemSusChem</i> , 2019, 12, 3702-3712.	3.6	31
44	Enhancing quantum efficiency and tuning photoluminescence properties in far-red-emitting phosphor Ca <sub>14</sub> Ga <sub>10</sub> Zn <sub>6</sub> O <sub>35</sub> :Mn <sup>4+</sup> based on chemical unit engineering. <i>Chemical Engineering Journal</i> , 2019, 374, 381-391.	6.6	112
45	Enhancing the electrochemical performance of micron-scale SiO <sub>2</sub> @C/CNTs anode via adding piezoelectric material BaTiO <sub>3</sub> for high-power lithium ion battery. <i>Journal of Alloys and Compounds</i> , 2019, 800, 116-124.	2.8	21
46	Enhancing photoluminescence properties of Mn <sup>4+</sup> -activated Sr <sub>4</sub> Al <sub>2</sub> Si <sub>2</sub> O <sub>14</sub> :BaAlO <sub>25</sub> red phosphors for plant cultivation LEDs. <i>Journal of the American Ceramic Society</i> , 2019, 102, 7386-7396.	1.9	16
47	Enhanced cycling performance and rate capacity of SiO anode material by compositing with monoclinic TiO <sub>2</sub> (B). <i>Applied Surface Science</i> , 2019, 486, 292-302.	3.1	26
48	Evaluation of <i>Cronobacter sakazakii</i> inactivation and physicochemical property changes of non-fat dry milk powder by cold atmospheric plasma. <i>Food Chemistry</i> , 2019, 290, 270-276.	4.2	38
49	Three-dimensional porous graphene oxide-maize amylopectin composites with controllable pore-sizes and good adsorption-desorption properties: Facile fabrication and reutilization, and the adsorption mechanism. <i>Ecotoxicology and Environmental Safety</i> , 2019, 176, 11-19.	2.9	58
50	In situ modification provided by a novel wet pyrolysis system to enhance surface properties of biochar for lead immobilization. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 570, 39-47.	2.3	27
51	Syngas production from microwave-assisted air gasification of biomass: Part 2 model validation. <i>Renewable Energy</i> , 2019, 140, 625-632.	4.3	27
52	Enhance the luminescence properties of Ca <sub>14</sub> Al <sub>10</sub> Zn <sub>6</sub> O <sub>35</sub> :Ti <sup>4+</sup> phosphor via cation vacancies engineering of Ca <sup>2+</sup> and Zn <sup>2+</sup> . <i>Ceramics International</i> , 2019, 45, 9977-9985.	2.3	22
53	Novel wet pyrolysis providing simultaneous conversion and activation to produce surface-functionalized biochars for cadmium remediation. <i>Journal of Cleaner Production</i> , 2019, 221, 63-72.	4.6	33
54	Improving the electrochemical properties of a SiO <sub>2</sub> @C/graphite composite anode for high-energy lithium-ion batteries by adding lithium fluoride. <i>Applied Surface Science</i> , 2019, 480, 410-418.	3.1	48

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55	Atmospheric Plasma-Assisted Ammonia Synthesis Enhanced via Synergistic Catalytic Absorption. ACS Sustainable Chemistry and Engineering, 2019, 7, 100-104.	3.2	48
56	Carbon nanodot-decorated alveolate N, O, S tridoped hierarchical porous carbon as efficient electrocatalysis of polysulfide conversion for lithium-sulfur batteries. Electrochimica Acta, 2019, 299, 600-609.	2.6	57
57	Scalable synthesis SiO@C anode by fluidization thermal chemical vapor deposition in fluidized bed reactor for high-energy lithium-ion battery. Applied Surface Science, 2019, 467-468, 298-308.	3.1	35
58	Improving the electrochemical properties of SiO@C anode for high-energy lithium ion battery by adding graphite through fluidization thermal chemical vapor deposition method. Ceramics International, 2019, 45, 1950-1959.	2.3	28
59	Sulfuric acid-adjutant sulfonated graphene as efficient polysulfides tamer for high-energy-density Li S batteries. Journal of Power Sources, 2019, 412, 134-141.	4.0	10
60	Cu modified ZnO nanoflowers as photoanode material for highly efficient dye sensitized solar cells. Electrochimica Acta, 2019, 294, 28-37.	2.6	27
61	<i>In situ</i> plasma-assisted atmospheric nitrogen fixation using water and spray-type jet plasma. Chemical Communications, 2018, 54, 2886-2889.	2.2	50
62	Self-assembly between photoresponsive azobenzene-based dications and thermally sensitive PNIPAM-b-PAA block copolymers in aqueous solution. Journal of Polymer Research, 2018, 25, 1.	1.2	5
63	Development and application of a continuous fast microwave pyrolysis system for sewage sludge utilization. Bioresource Technology, 2018, 256, 295-301.	4.8	96
64	Enhancing the electrochemical properties of LiTi <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> /C anode for aqueous rechargeable lithium battery by Li vacancy. Solid State Ionics, 2018, 315, 1-6.	1.3	22
65	Oil production from microwave-assisted pyrolysis of a low rank American brown coal. Energy Conversion and Management, 2018, 159, 76-84.	4.4	48
66	A review on the non-thermal plasma-assisted ammonia synthesis technologies. Journal of Cleaner Production, 2018, 177, 597-609.	4.6	150
67	Effect of pyrolysis condition on the adsorption mechanism of lead, cadmium and copper on tobacco stem biochar. Journal of Cleaner Production, 2018, 187, 996-1005.	4.6	118
68	Microwave-assisted co-pyrolysis of brown coal and corn stover for oil production. Bioresource Technology, 2018, 259, 461-464.	4.8	41
69	In-situ and ex-situ catalytic upgrading of vapors from microwave-assisted pyrolysis of lignin. Bioresource Technology, 2018, 247, 851-858.	4.8	108
70	Cu@MOF-Derived Cu/Cu <sub>2</sub> O Nanoparticles and Cu <sub>x</sub> C <sub>y</sub> Species to Boost Oxygen Reduction Activity of Ketjenblack Carbon in Air Battery. ACS Sustainable Chemistry and Engineering, 2018, 6, 413-421.	3.2	105
71	Microwave-Assisted Pyrolysis as an Alternative to Vacuum Distillation for Methyl Ester Recovery from Biodiesel Vacuum Distillation Bottoms. ACS Sustainable Chemistry and Engineering, 2018, 6, 14348-14355.	3.2	4
72	Improved luminescence and energy-transfer properties of Ca <sub>14</sub> Al <sub>10</sub> Zn <sub>6</sub> O <sub>35</sub> :Ti <sup>4+</sup> , Mn <sup>4+</sup> deep-red-emitting phosphors with high brightness for light-emitting diode (LED) plant-growth lighting. Dalton Transactions, 2018, 47, 13713-13721.	1.6	61

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73	pH dependent hydrothermal synthesis of Ca <sub>14</sub> Al <sub>10</sub> Zn <sub>6</sub> O <sub>35</sub> :0.15Mn <sup>4+</sup> phosphor with enhanced photoluminescence performance and high thermal resistance for indoor plant growth lighting. <i>Ceramics International</i> , 2018, 44, 19779-19786.	2.3	25
74	Silicon carbide foam supported ZSM-5 composite catalyst for microwave-assisted pyrolysis of biomass. <i>Bioresource Technology</i> , 2018, 267, 257-264.	4.8	51
75	Tunable dual emission of Ca <sub>3</sub> Al <sub>4</sub> ZnO <sub>10</sub> :Bi <sup>3+</sup> , Mn <sup>4+</sup> via energy transfer for indoor plant growth lighting. <i>Journal of Materials Chemistry C</i> , 2018, 6, 8914-8922.	2.7	134
76	Lithium storage performance improvement of NaTi <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> with nitrogen-doped carbon derived from polyaniline. <i>Journal of Alloys and Compounds</i> , 2018, 767, 745-752.	2.8	7
77	Advanced LiTi <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> anode with high performance for aqueous rechargeable lithium battery. <i>Ceramics International</i> , 2018, 44, 21599-21606.	2.3	17
78	Accelerated polysulfide redox kinetics revealed by ternary sandwich-type S@Co/N-doped carbon nanosheet for high-performance lithium-sulfur batteries. <i>Carbon</i> , 2018, 128, 86-96.	5.4	116
79	Effects of feedstock characteristics on microwave-assisted pyrolysis – A review. <i>Bioresource Technology</i> , 2017, 230, 143-151.	4.8	169
80	Biochars with excellent Pb(II) adsorption property produced from fresh and dehydrated banana peels via hydrothermal carbonization. <i>Bioresource Technology</i> , 2017, 232, 204-210.	4.8	273
81	Bio-oil production from sequential two-step catalytic fast microwave-assisted biomass pyrolysis. <i>Fuel</i> , 2017, 196, 261-268.	3.4	81
82	High-performance LiTi <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> @carbon anode using double carbon sources for aqueous lithium ion battery. <i>Ceramics International</i> , 2017, 43, 9327-9333.	2.3	24
83	A High-Performance Composite Electrode for Vanadium Redox Flow Batteries. <i>Advanced Energy Materials</i> , 2017, 7, 1700461.	10.2	133
84	Electrochemical presodiation promoting lithium storage performance of Mo-based anode materials. <i>Ceramics International</i> , 2017, 43, 11967-11972.	2.3	13
85	Bio-oil from fast pyrolysis of lignin: Effects of process and upgrading parameters. <i>Bioresource Technology</i> , 2017, 241, 1118-1126.	4.8	195
86	Dy <sup>3+</sup> @Mn <sup>4+</sup> -co-doped Ca <sub>14</sub> Ga <sub>10</sub> Al <sub>m</sub> Zn <sub>6</sub> O <sub>35</sub> far-red emitting phosphors with high brightness and improved luminescence and energy transfer properties for plant growth LED lights. <i>Journal of Materials Chemistry C</i> , 2017, 5, 8201-8210.	2.7	112
87	Effect of phosphoric acid on the surface properties and Pb(II) adsorption mechanisms of hydrochars prepared from fresh banana peels. <i>Journal of Cleaner Production</i> , 2017, 165, 221-230.	4.6	114
88	Ex-situ catalytic upgrading of vapors from microwave-assisted pyrolysis of low-density polyethylene with MgO. <i>Energy Conversion and Management</i> , 2017, 149, 432-441.	4.4	126
89	Ru-based multifunctional mesoporous catalyst for low-pressure and non-thermal plasma synthesis of ammonia. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 19056-19066.	3.8	82
90	LiTi <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> @carbon/graphene hybrid as superior anode materials for aqueous lithium ion batteries. <i>Ceramics International</i> , 2017, 43, 99-105.	2.3	24

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91	Enhanced Electrochemical Properties of Bi Nanowires as Anode Materials in Lithium and Sodium Batteries. <i>Current Nanoscience</i> , 2017, 13, .	0.7	3
92	Research progress and application prospects of transition metal Mn <sup>4+</sup> -activated luminescent materials. <i>Journal of Materials Chemistry C</i> , 2016, 4, 9143-9161.	2.7	228
93	Performance improvement by alumina coatings on Y <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> :Ce <sup>3+</sup> phosphor powder deposited using atomic layer deposition in a fluidized bed reactor. <i>RSC Advances</i> , 2016, 6, 76454-76462.	1.7	27
94	Diiodocarbene Modified Graphene: Preparation, Characterization and Its Application as a Novel Adsorbent for Aqueous Removal of Pb(II). <i>Nanoscience and Nanotechnology Letters</i> , 2016, 8, 387-392.	0.4	8
95	Synergistically enhanced oxygen reduction activity of MnO <sub>x</sub> /CeO <sub>2</sub> /Ketjenblack composites. <i>Chemical Communications</i> , 2015, 51, 10123-10126.	2.2	69
96	Three-Dimensional MnCo <sub>2</sub> O <sub>4.5</sub> Mesoporous Networks as an Electrocatalyst for Oxygen Reduction Reaction. <i>Journal of the Electrochemical Society</i> , 2015, 162, A2302-A2307.	1.3	18
97	Electrochemical behavior and cyclic fading mechanism of LiNi <sub>0.5</sub> Mn <sub>0.5</sub> O <sub>2</sub> electrode in LiNO <sub>3</sub> electrolyte. <i>Transactions of Nonferrous Metals Society of China</i> , 2014, 24, 415-422.	1.7	5
98	Nickel cobalt oxide/carbon nanotubes hybrid as a high-performance electrocatalyst for metal/air battery. <i>Nanoscale</i> , 2014, 6, 10235-10242.	2.8	112
99	Additive-free solvothermal synthesis of hierarchical flower-like LiFePO <sub>4</sub> /C mesocrystal and its electrochemical performance. <i>RSC Advances</i> , 2013, 3, 19366.	1.7	41
100	Polyol-Mediated Solvothermal Synthesis and Electrochemical Performance of Nanostructured V <sub>2</sub> O <sub>5</sub> Hollow Microspheres. <i>Journal of Physical Chemistry C</i> , 2013, 117, 1621-1626.	1.5	121
101	Additive-free solvothermal synthesis and Li-ion intercalation properties of dumbbell-shaped LiFePO <sub>4</sub> /C mesocrystals. <i>Journal of Power Sources</i> , 2013, 239, 103-110.	4.0	36
102	Enhanced Intercalation Dynamics and Stability of Engineered Micro/Nano-Structured Electrode Materials: Vanadium Oxide Mesocrystals. <i>Small</i> , 2013, 9, 3880-3886.	5.2	50
103	High colour purity single-phased full colour emitting white LED phosphor Sr <sub>2</sub> V <sub>2</sub> O <sub>7</sub> :Eu <sup>3+</sup> . <i>Journal Physics D: Applied Physics</i> , 2013, 46, 035104.	1.3	27
104	In-situ synthesis of carbon coated Li <sub>2</sub> MnSiO <sub>4</sub> nanoparticles with high rate performance. <i>Journal of Power Sources</i> , 2013, 242, 865-871.	4.0	47
105	Facile synthesis of nanostructured vanadium oxide as cathode materials for efficient Li-ion batteries. <i>Journal of Materials Chemistry</i> , 2012, 22, 24439.	6.7	63
106	Synthesis and characterization of high power LiFePO <sub>4</sub> /C nano-plate thin films. <i>Journal of Power Sources</i> , 2012, 213, 100-105.	4.0	27
107	Porous nanostructured V <sub>2</sub> O <sub>5</sub> film electrode with excellent Li-ion intercalation properties. <i>Electrochemistry Communications</i> , 2011, 13, 1276-1279.	2.3	40
108	Adsorption of Cd(II) and Pb(II) on biochars derived from grape vine shoots. , 0, 118, 195-204.		4