

# Liu Jianhua

## List of Publications by Year in descending order

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111  
papers

4,167  
citations

94433

37  
h-index

123424

61  
g-index

111  
all docs

111  
docs citations

111  
times ranked

6181  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of Intermetallic Compounds on Pitting Corrosion of Spark Plasma Sintered AA2024. <i>Corrosion</i> , 2022, 78, 572-583.	1.1	0
2	Long-term cycling stability of NiCo <sub>2</sub> S <sub>4</sub> hollow nanowires supported on biomass-derived ultrathin N-doped carbon 3D networks as an anode for lithium-ion batteries. <i>Chemical Communications</i> , 2021, 57, 1002-1005.	4.1	7
3	Surface matrix curing of inorganic CsPbI <sub>3</sub> perovskite quantum dots for solar cells with efficiency over 16%. <i>Energy and Environmental Science</i> , 2021, 14, 4599-4609.	30.8	96
4	Regulating Thiol Ligands of p-Type Colloidal Quantum Dots for Efficient Infrared Solar Cells. <i>ACS Energy Letters</i> , 2021, 6, 1970-1979.	17.4	34
5	Interlamellar Lithium-Ion Conductor Reformed Interface for High Performance Lithium Metal Anode. <i>Advanced Functional Materials</i> , 2021, 31, 2102336.	14.9	23
6	Effect of Solution and Aging Temperatures on Microstructure and Mechanical Properties of 10Cr13Co13Mo5Ni3W1VE(S280) Steel. <i>Micromachines</i> , 2021, 12, 566.	2.9	3
7	Role of grain boundary on the growth behavior of anodic film on spark plasma sintered AA6061. <i>Applied Surface Science</i> , 2021, 553, 149473.	6.1	1
8	Insight into the Interface Engineering of a SnO <sub>2</sub> /FAPbI <sub>3</sub> Perovskite Using Lead Halide as an Interlayer: A First-Principles Study. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 11330-11338.	4.6	8
9	The Interdiffusion Behavior of NiCoCrAlYHF Coating Deposited by Arc Ion Plating on Carburized Ni-Based Single Crystal Superalloy. <i>Materials</i> , 2021, 14, 7401.	2.9	1
10	A facile pre-assembly strategy toward grain boundary-induced-graphene based hybrid frameworks with high capacitance. <i>Chemical Engineering Journal</i> , 2020, 381, 122684.	12.7	4
11	Hydrolysis of metal-organic framework towards three-dimensional nickel cobalt-layered double hydroxide for high performance supercapacitors. <i>Journal of Energy Storage</i> , 2020, 31, 101649.	8.1	29
12	Dual Passivation of CsPbI <sub>3</sub> Perovskite Nanocrystals with Amino Acid Ligands for Efficient Quantum Dot Solar Cells. <i>Small</i> , 2020, 16, e2001772.	10.0	127
13	Turning free-standing three-dimensional graphene into electrochemically active by nitrogen doping during chemical vapor deposition process. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 3759-3768.	2.2	2
14	Effect of alkaline etching on microstructure and anticorrosion performance of anodic film on Al-Mg-Si alloy. <i>Corrosion Science</i> , 2020, 169, 108642.	6.6	22
15	Mesoporous Hollow Nested Nanospheres of Ni, Cu, Co-Based Mixed Sulfides for Electrocatalytic Oxygen Reduction and Evolution. <i>ACS Applied Nano Materials</i> , 2019, 2, 4921-4932.	5.0	30
16	Theoretical and experimental studies of passivity breakdown of Aermet 100 ultra-high stainless steel in chloride ion medium. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2019, 70, 2020-2032.	1.5	3
17	Highly Stabilized Quantum Dot Ink for Efficient Infrared Light Absorbing Solar Cells. <i>Advanced Energy Materials</i> , 2019, 9, 1902809.	19.5	50
18	Effect of divalent metal ions on durability and anticorrosion performance of layered double hydroxides on anodized 2A12 aluminum alloy. <i>Surface and Coatings Technology</i> , 2019, 373, 56-64.	4.8	25

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19	Probing and Controlling Surface Passivation of PbS Quantum Dot Solid for Improved Performance of Infrared Absorbing Solar Cells. <i>Chemistry of Materials</i> , 2019, 31, 4081-4091.	6.7	34
20	<i>In situ</i> growth of perovskite stacking layers for high-efficiency carbon-based hole conductor free perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 13777-13786.	10.3	58
21	Effects of graphene oxide-filled sol-gel sealing on the corrosion resistance and paint adhesion of anodized aluminum. <i>Applied Surface Science</i> , 2019, 479, 105-113.	6.1	38
22	SCC evaluation of a 2297 Al-Li alloy rolled plate using the slow-strain rate technique. <i>Chinese Journal of Aeronautics</i> , 2019, 32, 2516-2525.	5.3	1
23	Promoting polysulfide conversion by V <sub>2</sub> O <sub>3</sub> hollow sphere for enhanced lithium-sulfur battery. <i>Applied Surface Science</i> , 2019, 473, 1002-1008.	6.1	47
24	Silane modification of titanium dioxide-decorated graphene oxide nanocomposite for enhancing anticorrosion performance of epoxy coatings on AA-2024. <i>Journal of Alloys and Compounds</i> , 2018, 744, 728-739.	5.5	132
25	Self-assembly of near-unity helical Ce <sub>1-x</sub> M <sub>x</sub> O <sub>2</sub> ( $x = 0.1, M = \text{Tj, Et, O, 1, 0.784314, rg, 2.8}$ )	2.8	0
26	Inorganic CsPb <sub>3</sub> Perovskite Coating on PbS Quantum Dot for Highly Efficient and Stable Infrared Light Converting Solar Cells. <i>Advanced Energy Materials</i> , 2018, 8, 1702049.	19.5	143
27	Extremely lightweight and ultra-flexible infrared light-converting quantum dot solar cells with high power-per-weight output using a solution-processed bending durable silver nanowire-based electrode. <i>Energy and Environmental Science</i> , 2018, 11, 354-364.	30.8	108
28	Improvement of Corrosion Protection of Coating System via Inhibitor Response Order. <i>Coatings</i> , 2018, 8, 365.	2.6	7
29	Preparation and evaluation of the microwave absorption properties of template-free graphene foam-supported Ni nanoparticles. <i>RSC Advances</i> , 2017, 7, 14733-14741.	3.6	56
30	Corrosion protection of AA2024-T3 by sol-gel film modified with graphene oxide. <i>Journal of Alloys and Compounds</i> , 2017, 725, 84-95.	5.5	49
31	Nanohoneycomb-like manganese cobalt sulfide/three dimensional graphene-nickel foam hybrid electrodes for high-rate capability supercapacitors. <i>Applied Surface Science</i> , 2017, 396, 1816-1824.	6.1	87
32	Polyhedral-Like NiMn-Layered Double Hydroxide/Porous Carbon as Electrode for Enhanced Electrochemical Performance Supercapacitors. <i>Small</i> , 2017, 13, 1702616.	10.0	140
33	Enhanced charge carrier extraction by a highly ordered wrinkled MgZnO thin film for colloidal quantum dot solar cells. <i>Journal of Materials Chemistry C</i> , 2017, 5, 11111-11120.	5.5	18
34	Synthesis of Inhibitor Nanocontainers with Two-Dimensional Structure and Their Anticorrosion Action in Sol-Gel Coating on AA2024-T3 Aluminum Alloy. <i>Journal of the Electrochemical Society</i> , 2017, 164, C641-C652.	2.9	18
35	Ultralight Interconnected Graphene-Amorphous Carbon Hierarchical Foam with Mechanical Resiliency for High Sensitivity and Durable Strain Sensors. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 27127-27134.	8.0	41
36	Pre-planted nucleation seeds for rechargeable metallic lithium anodes. <i>Journal of Materials Chemistry A</i> , 2017, 5, 18862-18869.	10.3	28

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37	Platinum nanoparticles-loaded holey reduced graphene oxide framework as freestanding counter electrodes of dye sensitized solar cells and methanol oxidation catalysts. <i>Electrochimica Acta</i> , 2017, 258, 485-494.	5.2	33
38	Enhancement of active anticorrosion via Ce-doped Zn-Al layered double hydroxides embedded in sol-gel coatings on aluminum alloy. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2017, 32, 1199-1204.	1.0	19
39	Graphene foam supported multilevel network-like NiCo <sub>2</sub> S <sub>4</sub> nanoarchitectures for robust lithium storage and efficient ORR catalysis. <i>New Journal of Chemistry</i> , 2017, 41, 115-125.	2.8	25
40	Super helical Au/TiO <sub>2</sub> nanocomposites based on plasmid DNA for efficiency dye-sensitized solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 4138-4145.	2.2	7
41	EIS characterization of sealed anodic oxide films on titanium alloy Ti-10V-2Fe-3Al. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2016, 31, 599-605.	1.0	5
42	Transparent conducting oxide-free nitrogen-doped graphene/reduced hydroxylated carbon nanotube composite paper as flexible counter electrodes for dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2016, 334, 44-51.	7.8	25
43	Sub-coherent growth of ZnO nanorod arrays on three-dimensional graphene framework as one-bulk high-performance photocatalyst. <i>Applied Surface Science</i> , 2016, 390, 266-272.	6.1	46
44	Unique structure and mechanical property of Dabryanus scale. <i>Journal of Bionic Engineering</i> , 2016, 13, 641-649.	5.0	6
45	Corrosion Protective Properties of Silane Functionalized Graphene Oxide Film on AA2024-T3 Aluminum Alloy. <i>Journal of the Electrochemical Society</i> , 2016, 163, C798-C806.	2.9	31
46	Corrosion behavior of ultra-high strength steel 300M in different simulated marine environments. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2016, 31, 372-378.	1.0	6
47	Optically active multi-helical erythrocyte-like Ln(OH)CO <sub>3</sub> (Ln = La, Ce, Pr and Sm). <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 20261-20265.	2.8	2
48	NiCo <sub>2</sub> S <sub>4</sub> nanotube arrays grown on flexible nitrogen-doped carbon foams as three-dimensional binder-free integrated anodes for high-performance lithium-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 4505-4512.	2.8	90
49	Three-dimensional nitrogen doped holey reduced graphene oxide framework as metal-free counter electrodes for high performance dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2016, 308, 44-51.	7.8	59
50	Self-assembly of ultrathin mesoporous CoMoO <sub>4</sub> nanosheet networks on flexible carbon fabric as a binder-free anode for lithium-ion batteries. <i>New Journal of Chemistry</i> , 2016, 40, 2259-2267.	2.8	51
51	Hierarchical NiMoO <sub>4</sub> nanowire arrays supported on macroporous graphene foam as binder-free 3D anodes for high-performance lithium storage. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 908-915.	2.8	82
52	Biomass chitin-derived honeycomb-like nitrogen-doped carbon/graphene nanosheet networks for applications in efficient oxygen reduction and robust lithium storage. <i>Journal of Materials Chemistry A</i> , 2016, 4, 11789-11799.	10.3	71
53	From Commercial Sponge Toward 3D Graphene-Silicon Networks for Superior Lithium Storage. <i>Advanced Energy Materials</i> , 2015, 5, 1500289.	19.5	114
54	Anchoring nano-sulfur on flat graphene as cathode material for lithium-sulfur battery. <i>RSC Advances</i> , 2015, 5, 40310-40315.	3.6	19

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55	Integration of network-like porous NiMoO <sub>4</sub> nanoarchitectures assembled with ultrathin mesoporous nanosheets on three-dimensional graphene foam for highly reversible lithium storage. <i>Journal of Materials Chemistry A</i> , 2015, 3, 13691-13698.	10.3	72
56	Effects of sodium tartrate anodizing on fatigue life of TA15 titanium alloy. <i>Chinese Journal of Aeronautics</i> , 2015, 28, 1281-1286.	5.3	2
57	Polyaniline nanocone arrays synthesized on three-dimensional graphene network by electrodeposition for supercapacitor electrodes. <i>Carbon</i> , 2015, 87, 98-105.	10.3	129
58	Enhanced protective Zn-Al layered double hydroxide film fabricated on anodized 2198 aluminum alloy. <i>Journal of Alloys and Compounds</i> , 2015, 630, 29-36.	5.5	79
59	Influence of embedded ZnAlCe-NO <sub>3</sub> layered double hydroxides on the anticorrosion properties of sol-gel coatings for aluminum alloy. <i>Progress in Organic Coatings</i> , 2015, 81, 93-100.	3.9	50
60	Fabrication of inhibitor anion-intercalated layered double hydroxide host films on aluminum alloy 2024 and their anticorrosion properties. <i>Journal of Coatings Technology Research</i> , 2015, 12, 293-302.	2.5	57
61	Superior methanol electrooxidation activity and CO tolerance of mesoporous helical nanospindle-like CeO <sub>2</sub> modified Pt/C. <i>RSC Advances</i> , 2015, 5, 64261-64267.	3.6	12
62	Multi-functional DNA-based synthesis of SWNTs@(TiO <sub>2</sub> /Ag/Au) nanocomposites for enhanced light-harvesting and charge collection in DSSCs. <i>RSC Advances</i> , 2015, 5, 5604-5610.	3.6	9
63	A facile approach to superhydrophobic LiAl-layered double hydroxide film on Al-Li alloy substrate. <i>Journal of Coatings Technology Research</i> , 2015, 12, 595-601.	2.5	47
64	Electrophoretic deposition of hierarchical Co <sub>3</sub> O <sub>4</sub> @graphene hybrid films as binder-free anodes for high-performance lithium-ion batteries. <i>RSC Advances</i> , 2015, 5, 33438-33444.	3.6	31
65	Vertically Aligned Sulfur-Graphene Nanowalls on Substrates for Ultrafast Lithium-Sulfur Batteries. <i>Nano Letters</i> , 2015, 15, 3073-3079.	9.1	183
66	Slow recombination in quantum dot solid solar cell using p-n architecture with organic p-type hole transport material. <i>Journal of Materials Chemistry A</i> , 2015, 3, 20579-20585.	10.3	46
67	One-step synthesis of the nickel foam supported network-like ZnO nanoarchitectures assembled with ultrathin mesoporous nanosheets with improved lithium storage performance. <i>RSC Advances</i> , 2015, 5, 81341-81347.	3.6	18
68	Controllable synthesis of micro/nano-structured MnCo <sub>2</sub> O <sub>4</sub> with multiporous core-shell architectures as high-performance anode materials for lithium-ion batteries. <i>New Journal of Chemistry</i> , 2015, 39, 8416-8423.	2.8	21
69	Fabrication of superhydrophobic layered double hydroxides films with different metal cations on anodized aluminum 2198 alloy. <i>Materials Letters</i> , 2015, 142, 137-140.	2.6	40
70	Facile and large-scale fabrication of hierarchical ZnFe <sub>2</sub> O <sub>4</sub> /graphene hybrid films as advanced binder-free anodes for lithium-ion batteries. <i>New Journal of Chemistry</i> , 2015, 39, 1725-1733.	2.8	29
71	Graphene dip coatings: An effective anticorrosion barrier on aluminum. <i>Applied Surface Science</i> , 2015, 327, 241-245.	6.1	91
72	Effect of passive film on mechanical properties of martensitic stainless steel 15-5PH in a neutral NaCl solution. <i>Applied Surface Science</i> , 2015, 327, 313-320.	6.1	41

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73	Mesoporous NiCo <sub>2</sub> O <sub>4</sub> nanoneedles grown on 3D graphene-nickel foam for supercapacitor and methanol electro-oxidation. <i>Electrochimica Acta</i> , 2015, 151, 99-108.	5.2	222
74	SCC investigation of low alloy ultra-high strength steel 30CrMnSiNi2A in 3.5wt% NaCl solution by slow strain rate technique. <i>Chinese Journal of Aeronautics</i> , 2014, 27, 1327-1333.	5.3	19
75	Effects of prior cathodic polarization on crystallographic pit initiation on aluminum. <i>Corrosion Science</i> , 2014, 80, 12-18.	6.6	22
76	Influence of different medium aging on advanced composite T300/5405. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2014, 29, 219-223.	1.0	0
77	Manifestations in corrosion prophase of ultra-high strength steel 30CrMnSiNi2A in sodium chloride solutions. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2014, 29, 367-373.	1.0	2
78	Hydrothermal synthesis of NiCo <sub>2</sub> O <sub>4</sub> nanowires/nitrogen-doped graphene for high-performance supercapacitor. <i>Applied Surface Science</i> , 2014, 314, 1000-1006.	6.1	55
79	Effect of TiO <sub>2</sub> nanostructures on specific capacitance of Al <sub>2</sub> O <sub>3</sub> @TiO <sub>2</sub> composite film on etched aluminum foil formed by the sol-gel and anodizing. <i>Ceramics International</i> , 2014, 40, 3687-3692.	4.8	15
80	Surface characteristics of anodic oxide films fabricated in acid and neutral electrolytes on Ti-10V-2Fe-3Al alloy. <i>Surface and Interface Analysis</i> , 2013, 45, 661-666.	1.8	11
81	Synthesis and magnetic properties of BaTiO <sub>3</sub> -Co <sub>x</sub> Fe <sub>3-x</sub> O <sub>4</sub> core-shell particles by homogeneous coprecipitation. <i>Journal of Electroceramics</i> , 2013, 31, 96-101.	2.0	4
82	DNA assembled single-walled carbon nanotube nanocomposites for high efficiency dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 11070.	10.3	15
83	Bioinspired synthesis of Ag@TiO <sub>2</sub> plasmonic nanocomposites to enhance the light harvesting of dye-sensitized solar cells. <i>RSC Advances</i> , 2013, 3, 18587.	3.6	29
84	Effect of Hydrogen on Mechanical Properties of 23Co14Ni12Cr3Mo Ultrahigh Strength Steel. <i>Journal of Materials Engineering and Performance</i> , 2013, 22, 3916-3921.	2.5	1
85	Polyaniline-Grafted Graphene Hybrid with Amide Groups and Its Use in Supercapacitors. <i>Journal of Physical Chemistry C</i> , 2012, 116, 19699-19708.	3.1	124
86	Photoinduced Silver Nanoparticles/Nanorings on Plasmid DNA Scaffolds. <i>Small</i> , 2012, 8, 310-316.	10.0	38
87	Preparation of an Amide Group-Connected Graphene@Polyaniline Nanofiber Hybrid and Its Application in Supercapacitors. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 2870-2876.	8.0	110
88	Surface analysis of chemical stripping titanium alloy oxide films. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2012, 27, 399-404.	1.0	9
89	Synthesis and characterization of Ag@Ni nanorings based on plasmid DNA templates. <i>Materials Letters</i> , 2012, 67, 277-279.	2.6	6
90	Preparation and characterization of hollow glass microspheres@cobalt ferrite core-shell particles based on homogeneous coprecipitation. <i>Materials Letters</i> , 2011, 65, 929-932.	2.6	14

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91	Fabrication and characterization of Ag nanoparticles based on plasmid DNA as templates. <i>Materials Letters</i> , 2011, 65, 719-721.	2.6	8
92	Effect of electropolishing on electrochemical behaviours of titanium alloy Ti-10V-2Fe-3Al. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2011, 26, 469-477.	1.0	9
93	Effect of pre-corrosion on fatigue life of high strength steel 38CrMoAl. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2011, 26, 648-653.	1.0	3
94	Microwave absorption properties of rod-shaped Co-Ni-P shells prepared by metallizing <i>Bacillus</i> . <i>Applied Surface Science</i> , 2011, 257, 2383-2386.	6.1	24
95	Effect of electrolyte concentration on morphology, microstructure and electrochemical impedance of anodic oxide film on titanium alloy Ti-10V-2Fe-3Al. <i>Journal of Applied Electrochemistry</i> , 2010, 40, 1545-1553.	2.9	9
96	PREPARATION AND CHARACTERISTICS OF $\text{Ni}_2\text{O}_4$ -ENCAPSULATED HOLLOW GLASS SPHERES BY ERRITE PLATING. <i>International Journal of Modern Physics B</i> , 2010, 24, 3215-3220.	2.0	1
97	Fabrication and magnetic properties of Co-Ni-P rod-shaped hollow structures based on <i>Bacillus</i> template. <i>Materials Letters</i> , 2009, 63, 1907-1909.	2.6	11
98	Preparation and characterization of Ni-P hollow material based on the shape of <i>Nocardia</i> . <i>Science Bulletin</i> , 2008, 53, 3235-3239.	9.0	4
99	Effects of electroplated coatings on corrosion behavior of Ti-1023/30CrMnSiA galvanic couple. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2008, 23, 704-707.	1.0	5
100	Magnetic and mechanical properties of micro/nano particles prepared by metallizing rod-shaped bacteria. <i>Materials Letters</i> , 2008, 62, 2999-3002.	2.6	8
101	Research of mechanical properties of a micro/nano rod material based on the shape of <i>Nocardia</i> . , 2008, , .		0
102	Evolution of Microstructure and Precipitates with Cycle Annealing Temperature of an Al-Mg-Mn-Sc-Zr Alloy. <i>Materials and Manufacturing Processes</i> , 2007, 22, 1-4.	4.7	9
103	Effect of sulphate-reducing bacteria on the electrochemical impedance spectroscopy characteristics of 1Cr18Ni9Ti. <i>International Journal of Minerals, Metallurgy, and Materials</i> , 2007, 14, 425-430.	0.2	6
104	Fabrication and characterization of highly ordered Ni <sub>0.5</sub> Zn <sub>0.5</sub> Fe <sub>2</sub> O <sub>4</sub> nanowire/tube arrays by sol-gel template method. <i>International Journal of Minerals, Metallurgy, and Materials</i> , 2007, 14, 469-472.	0.2	6
105	Synthesis and Photocatalytic Activity of TiO <sub>2</sub> /V <sub>2</sub> O <sub>5</sub> Composite Catalyst Doped with Rare Earth Ions. <i>Journal of Rare Earths</i> , 2007, 25, 173-178.	4.8	41
106	Preparation and characterization of highly ordered NiO nanowire arrays by sol-gel template method. <i>International Journal of Minerals, Metallurgy, and Materials</i> , 2006, 13, 169-173.	0.2	6
107	Preparation and characterization of high photoactive TiO <sub>2</sub> catalyst using the UV irradiation-induced sol-gel method. <i>International Journal of Minerals, Metallurgy, and Materials</i> , 2006, 13, 350-354.	0.2	5
108	Preparation and characterization of the TiO <sub>2</sub> -V <sub>2</sub> O <sub>5</sub> photocatalyst with visible-light activity. <i>Rare Metals</i> , 2006, 25, 636-642.	7.1	72

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109	Sensitive Detection of Polyimides Degradation by Microorganisms Using Electrochemical Impedance Spectroscopy.. Microbes and Environments, 2002, 17, 105-112.	1.6	4
110	Title is missing!. Journal of Polymers and the Environment, 2000, 8, 167-174.	5.0	7
111	Multifunctional Chemical Bridge and Defect Passivation for Highly Efficient Inverted Perovskite Solar Cells. ACS Energy Letters, 0, , 1596-1606.	17.4	115