

# Peng-Fei Yan

## List of Publications by Year in descending order

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119  
papers

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citations

29994

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119  
docs citations

119  
times ranked

13492  
citing authors

#	ARTICLE	IF	CITATIONS
1	Coordination modulation of iridium single-atom catalyst maximizing water oxidation activity. Nature Communications, 2022, 13, 24.	5.8	99
2	Efficient and Dense Electron Emission from a SiO <sub>2</sub> Tunneling Diode with Low Poisoning Sensitivity. Nano Letters, 2022, 22, 1270-1277.	4.5	7
3	Highly stable operation of LiCoO <sub>2</sub> at cut-off ≈ 4.6 V enabled by synergistic structural and interfacial manipulation. Energy Storage Materials, 2022, 46, 406-416.	9.5	48
4	Synergistical Stabilization of Li Metal Anodes and LiCoO <sub>2</sub> Cathodes in High-Voltage Li <sup>+</sup> /LiCoO <sub>2</sub> Batteries by Potassium Selenocyanate (KSeCN) Additive. ACS Energy Letters, 2022, 7, 1364-1373.	8.8	49
5	Pushing Lithium Cobalt Oxides to 4.7 V by Lattice-Matched Interfacial Engineering. Advanced Energy Materials, 2022, 12, .	10.2	77
6	Boosting Activity and Stability of Electrodeposited Amorphous Ce-Doped NiFe-Based Catalyst for Electrochemical Water Oxidation. Advanced Functional Materials, 2022, 32, .	7.8	27
7	The interphasial degradation of 4.2 V-class poly(ethylene oxide)-based solid batteries beyond electrochemical voltage limit. Journal of Energy Chemistry, 2022, 75, 504-511.	7.1	9
8	Surface Transformation Enables a Dendrite-Free Zinc-Metal Anode in Nonaqueous Electrolyte. Advanced Materials, 2022, 34, .	11.1	34
9	Engineering the interface between LiCoO <sub>2</sub> and Li <sub>10</sub> GeP <sub>2</sub> S <sub>12</sub> solid electrolytes with an ultrathin Li <sub>2</sub> CoTi <sub>3</sub> O <sub>8</sub> interlayer to boost the performance of all-solid-state batteries. Energy and Environmental Science, 2021, 14, 437-450.	15.6	82
10	MOF-derived Co/CoO particles prepared by low temperature reduction for microwave absorption. Chemical Engineering Journal, 2021, 410, 128378.	6.6	79
11	Ultra-High Initial Coulombic Efficiency Induced by Interface Engineering Enables Rapid, Stable Sodium Storage. Angewandte Chemie - International Edition, 2021, 60, 11481-11486.	7.2	124
12	LiCoO <sub>2</sub> Epitaxial Film Enabling Precise Analysis of Interfacial Degradations. Chinese Physics Letters, 2021, 38, 068202.	1.3	2
13	Atomically dispersed Ni induced by ultrahigh N-doped carbon enables stable sodium storage. Chem, 2021, 7, 2684-2694.	5.8	77
14	MAX phase Zr <sub>2</sub> SeC and its thermal conduction behavior. Journal of the European Ceramic Society, 2021, 41, 4447-4451.	2.8	33
15	Unraveling TM Migration Mechanisms in LiNi <sub>1/3</sub> Mn <sub>1/3</sub> Co <sub>1/3</sub> O <sub>2</sub> by Modeling and Experimental Studies. Nano Letters, 2021, 21, 6875-6881.	4.5	23
16	Revealing two distinctive intergranular cracking mechanisms of Ni-rich layered cathode by cross-sectional scanning electron microscopy. Journal of Power Sources, 2021, 503, 230066.	4.0	16
17	Charge distribution guided by grain crystallographic orientations in polycrystalline battery materials. Nature Communications, 2020, 11, 83.	5.8	129
18	Reversible hybrid sodium-CO <sub>2</sub> batteries with low charging voltage and long-life. Nano Energy, 2020, 68, 104318.	8.2	70

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19	Atomistic mechanism of cracking degradation at twin boundary of LiCoO <sub>2</sub> . Nano Energy, 2020, 78, 105364.	8.2	48
20	Advancing layered cathode material's cycling stability from uniform doping to non-uniform doping. Journal of Materials Chemistry A, 2020, 8, 16690-16697.	5.2	14
21	<i>c</i> -Axis Phase Boundary Movement Induced (020) Plane Cracking in LiFePO <sub>4</sub> . ACS Applied Materials & Interfaces, 2020, 12, 39245-39251.	4.0	6
22	Manganese Doping in Cobalt Oxide Nanorods Promotes Catalytic Dehydrogenation. ACS Sustainable Chemistry and Engineering, 2020, 8, 5734-5741.	3.2	19
23	Î±-CsPbI <sub>3</sub> Nanocrystals by Ultraviolet Light-Driven Oriented Attachment. Journal of Physical Chemistry Letters, 2020, 11, 913-919.	2.1	15
24	Sulfur-doped reduced graphene oxide/Sb <sub>2</sub> S <sub>3</sub> composite for superior lithium and sodium storage. Materials Chemistry and Physics, 2020, 244, 122661.	2.0	19
25	Controlling Surface Phase Transition and Chemical Reactivity of O <sub>3</sub> -Layered Metal Oxide Cathodes for High-Performance Na-Ion Batteries. ACS Energy Letters, 2020, 5, 1718-1725.	8.8	64
26	Revealing the minor Li-ion blocking effect of LiCoO <sub>2</sub> surface phase transition layer. Journal of Power Sources, 2020, 460, 228126.	4.0	39
27	Hydrangea-like Î±-Ni <sub>1/3</sub> Co <sub>2/3</sub> (OH) <sub>2</sub> Reinforced by Ethyl Carbamate "Rivet" for All-Solid-State Supercapacitors with Outstanding Comprehensive Performance. ACS Applied Materials & Interfaces, 2019, 11, 32269-32281.	4.0	63
28	Dual Bond Enhanced Multidimensional Constructed Composite Silicon Anode for High-Performance Lithium Ion Batteries. ACS Nano, 2019, 13, 8854-8864.	7.3	91
29	A Novel Protective Strategy on High-Voltage LiCoO <sub>2</sub> Cathode for Fast Charging Applications: Li <sub>1.6</sub> Mg <sub>1.6</sub> Sn <sub>2.8</sub> O <sub>8</sub> Double Layer Structure via SnO <sub>2</sub> Surface Modification. Small Methods, 2019, 3, 1900355.	4.6	22
30	Dopant Segregation Boosting High-Voltage Cyclability of Layered Cathode for Sodium Ion Batteries. Advanced Materials, 2019, 31, e1904816.	11.1	89
31	Origins of capacity and voltage fading of LiCoO <sub>2</sub> upon high voltage cycling. Journal of Materials Chemistry A, 2019, 7, 20824-20831.	5.2	99
32	Revealing the Atomic Origin of Heterogeneous Li <sup>+</sup> Ion Diffusion by Probing Na. Advanced Materials, 2019, 31, e1805889.	11.1	30
33	Realizing superior cycling stability of Ni-Rich layered cathode by combination of grain boundary engineering and surface coating. Nano Energy, 2019, 62, 30-37.	8.2	115
34	Injection of oxygen vacancies in the bulk lattice of layered cathodes. Nature Nanotechnology, 2019, 14, 602-608.	15.6	321
35	Atomic pair distribution function research on Li <sub>2</sub> MnO <sub>3</sub> electrode structure evolution. Science Bulletin, 2019, 64, 553-561.	4.3	20
36	Dual Interphase Layers In Situ Formed on a Manganese-Based Oxide Cathode Enable Stable Potassium Storage. Chem, 2019, 5, 3220-3231.	5.8	79

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37	Hierarchical Microspheres of Aggregated Silicon Nanoparticles with Nanometre Gaps as the Anode for Lithium-Ion Batteries with Excellent Cycling Stability. ChemElectroChem, 2019, 6, 1139-1148.	1.7	8
38	Revealing the Doping Effect in Stabilizing Layered Cathode Materials for Sodium-Ion Battery. ECS Meeting Abstracts, 2019, .	0.0	0
39	Creation and Ordering of Oxygen Vacancies at WO <sub>3</sub> and Perovskite Interfaces. ACS Applied Materials & Interfaces, 2018, 10, 17480-17486.	4.0	29
40	Tuning piezoelectric properties through epitaxy of La <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> and related thin films. Scientific Reports, 2018, 8, 3037.	1.6	15
41	Enhanced Cyclability of Lithium-Oxygen Batteries with Electrodes Protected by Surface Films Induced via In Situ Electrochemical Process. Advanced Energy Materials, 2018, 8, 1702340.	10.2	38
42	Effect of calcination temperature on the electrochemical properties of nickel-rich LiNi <sub>0.76</sub> Mn <sub>0.14</sub> Co <sub>0.10</sub> O <sub>2</sub> cathodes for lithium-ion batteries. Nano Energy, 2018, 49, 538-548.	8.2	213
43	Pushing the limit of layered transition metal oxide cathodes for high-energy density rechargeable Li ion batteries. Energy and Environmental Science, 2018, 11, 1271-1279.	15.6	322
44	Phase transition induced cracking plaguing layered cathode for sodium-ion battery. Nano Energy, 2018, 54, 148-155.	8.2	106
45	Coupling of electrochemically triggered thermal and mechanical effects to aggravate failure in a layered cathode. Nature Communications, 2018, 9, 2437.	5.8	200
46	Tailoring grain boundary structures and chemistry of Ni-rich layered cathodes for enhanced cycle stability of lithium-ion batteries. Nature Energy, 2018, 3, 600-605.	19.8	613
47	Atomic origins of water-vapour-promoted alloy oxidation. Nature Materials, 2018, 17, 514-518.	13.3	106
48	Minimizing Polysulfide Shuttle Effect in Lithium-Ion Sulfur Batteries by Anode Surface Passivation. ACS Applied Materials & Interfaces, 2018, 10, 21965-21972.	4.0	18
49	Intragranular cracking as a critical barrier for high-voltage usage of layer-structured cathode for lithium-ion batteries. Nature Communications, 2017, 8, 14101.	5.8	654
50	Stabilization of Li Metal Anode in DMSO-Based Electrolytes via Optimization of Salt-Solvent Coordination for Li-O <sub>2</sub> Batteries. Advanced Energy Materials, 2017, 7, 1602605.	10.2	99
51	Structural Transformations in High-Capacity Li <sub>2</sub> Cu <sub>0.5</sub> Ni <sub>0.5</sub> O <sub>2</sub> Cathodes. Chemistry of Materials, 2017, 29, 2997-3005.	3.2	21
52	Formation of Reversible Solid Electrolyte Interface on Graphite Surface from Concentrated Electrolytes. Nano Letters, 2017, 17, 1602-1609.	4.5	91
53	Tuning the Solid Electrolyte Interphase for Selective Li-and Na-Ion Storage in Hard Carbon. Advanced Materials, 2017, 29, 1606860.	11.1	157
54	High electrical conductivity in Ba <sub>2</sub> In <sub>2</sub> O <sub>5</sub> brownmillerite based materials induced by design of a Frenkel defect structure. RSC Advances, 2017, 7, 4688-4696.	1.7	4

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55	Atomic Resolution Structural and Chemical Imaging Revealing the Sequential Migration of Ni, Co, and Mn upon the Battery Cycling of Layered Cathode. <i>Nano Letters</i> , 2017, 17, 3946-3951.	4.5	143
56	Design of porous Si/C-graphite electrodes with long cycle stability and controlled swelling. <i>Energy and Environmental Science</i> , 2017, 10, 1427-1434.	15.6	140
57	Damage evolution of ion irradiated defected-fluorite La <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> epitaxial thin films. <i>Acta Materialia</i> , 2017, 130, 111-120.	3.8	20
58	Li- and Mn-Rich Cathode Materials: Challenges to Commercialization. <i>Advanced Energy Materials</i> , 2017, 7, 1601284.	10.2	383
59	Temperature Dependence of the Oxygen Reduction Mechanism in Nonaqueous Li <sub>2</sub> O Batteries. <i>ACS Energy Letters</i> , 2017, 2, 2525-2530.	8.8	30
60	Rock-Salt Growth-Induced (003) Cracking in a Layered Positive Electrode for Li-Ion Batteries. <i>ACS Energy Letters</i> , 2017, 2, 2607-2615.	8.8	116
61	Suppressed oxygen extraction and degradation of LiNi <sub>x</sub> Mn <sub>y</sub> Co <sub>z</sub> O <sub>2</sub> cathodes at high charge cut-off voltages. <i>Nano Research</i> , 2017, 10, 4221-4231.	5.8	77
62	Yolk-shell structured Sb@C anodes for high energy Na-ion batteries. <i>Nano Energy</i> , 2017, 40, 504-511.	8.2	123
63	Excess Li-Ion Storage on Reconstructed Surfaces of Nanocrystals To Boost Battery Performance. <i>Nano Letters</i> , 2017, 17, 6018-6026.	4.5	53
64	Time-resolved Atomic-scale Chemical Imaging of the Dynamic Phase Transformation in Li-rich Layered Cathode Materials Induced by Electron-beam Irradiation. <i>Microscopy and Microanalysis</i> , 2016, 22, 1298-1299.	0.2	0
65	Enhanced Cycling Stability of Rechargeable Li <sub>2</sub> O Batteries Using High-Concentration Electrolytes. <i>Advanced Functional Materials</i> , 2016, 26, 605-613.	7.8	104
66	Highly Stable Operation of Lithium Metal Batteries Enabled by the Formation of a Transient High-Concentration Electrolyte Layer. <i>Advanced Energy Materials</i> , 2016, 6, 1502151.	10.2	236
67	Electrochemically Formed Ultrafine Metal Oxide Nanocatalysts for High-Performance Lithium-Oxygen Batteries. <i>Nano Letters</i> , 2016, 16, 4932-4939.	4.5	62
68	Ni and Co Segregations on Selective Surface Facets and Rational Design of Layered Lithium Transition-Metal Oxide Cathodes. <i>Advanced Energy Materials</i> , 2016, 6, 1502455.	10.2	100
69	Investigating Side Reactions and Coating Effects on High Voltage Layered Cathodes for Lithium Ion Batteries. <i>Microscopy and Microanalysis</i> , 2016, 22, 1312-1313.	0.2	0
70	Competing Pathways for Nucleation of the Double Perovskite Structure in the Epitaxial Synthesis of La <sub>2</sub> MnNiO <sub>6</sub> . <i>Chemistry of Materials</i> , 2016, 28, 3814-3822.	3.2	29
71	Exploring Lithium-Cobalt-Nickel Oxide Spinel Electrodes for ~3.5 V Li-Ion Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 27720-27729.	4.0	25
72	The importance of solid electrolyte interphase formation for long cycle stability full-cell Na-ion batteries. <i>Nano Energy</i> , 2016, 27, 664-672.	8.2	41

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73	Effect of Al <sub>2</sub> O <sub>3</sub> on the sintering of garnet-type Li <sub>6.5</sub> La <sub>3</sub> Zr <sub>1.5</sub> Ta <sub>0.5</sub> O <sub>12</sub> . Solid State Ionics, 2016, 294, 108-115.	1.3	44
74	Hard carbon coated nano-Si/graphite composite as a high performance anode for Li-ion batteries. Journal of Power Sources, 2016, 329, 323-329.	4.0	73
75	Reversible aqueous zinc/manganese oxide energy storage from conversion reactions. Nature Energy, 2016, 1, .	19.8	2,186
76	A facile cathode design combining Ni-rich layered oxides with Li-rich layered oxides for lithium-ion batteries. Journal of Power Sources, 2016, 325, 620-629.	4.0	46
77	Ultrathin Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> Nanosheets as Anode Materials for Lithium and Sodium Storage. ACS Applied Materials & Interfaces, 2016, 8, 16718-16726.	4.0	87
78	A Spinel-Integrated P2-Type Layered Composite: High-Rate Cathode for Sodium-Ion Batteries. Journal of the Electrochemical Society, 2016, 163, A584-A591.	1.3	57
79	Effects of Propylene Carbonate Content in CsPF <sub>6</sub> -Containing Electrolytes on the Enhanced Performances of Graphite Electrode for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 5715-5722.	4.0	43
80	A stable nanoporous silicon anode prepared by modified magnesiothermic reactions. Nano Energy, 2016, 20, 68-75.	8.2	65
81	Atomic to Nanoscale Investigation of Functionalities of an Al <sub>2</sub> O <sub>3</sub> Coating Layer on a Cathode for Enhanced Battery Performance. Chemistry of Materials, 2016, 28, 857-863.	3.2	125
82	Charge-Discharge Cycling Induced Structural and Chemical Evolution of Li <sub>2</sub> MnO <sub>3</sub> Cathode for Li-ion Batteries. Microscopy and Microanalysis, 2015, 21, 473-474.	0.2	0
83	Structural and Chemical Evolution of Li and Mn Rich Layered Oxide Cathode and Correlation with Capacity and Voltage Fading. Microscopy and Microanalysis, 2015, 21, 141-142.	0.2	1
84	In situ Grown ZnCo <sub>2</sub> O <sub>4</sub> on Single-Walled Carbon Nanotubes as Air Electrode Materials for Rechargeable Lithium-Oxygen Batteries. ChemSusChem, 2015, 8, 3697-3703.	3.6	34
85	Interfacial Reaction Dependent Performance of Hollow Carbon Nanosphere Sulfur Composite as a Cathode for Li-S Battery. Frontiers in Energy Research, 2015, 3, .	1.2	3
86	Recent Advances on the Understanding of Structural and Composition Evolution of LMR Cathodes for Li-ion Batteries. Frontiers in Energy Research, 2015, 3, .	1.2	19
87	Probing the failure mechanism of nanoscale LiFePO <sub>4</sub> for Li-ion batteries. Applied Physics Letters, 2015, 106, 203902.	1.5	15
88	A new insight into the oxygen diffusion in porous cathodes of lithium-air batteries. Energy, 2015, 83, 669-673.	4.5	29
89	Defect Structure Analysis of Heterointerface between Pt and CeO <sub>x</sub> Promoter on Pt Electro-Catalyst. ACS Applied Materials & Interfaces, 2015, 7, 2698-2707.	4.0	34
90	Observation of Electron-Beam-Induced Phase Evolution Mimicking the Effect of the Charge-Discharge Cycle in Li-Rich Layered Cathode Materials Used for Li Ion Batteries. Chemistry of Materials, 2015, 27, 1375-1380.	3.2	73

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91	Structural and Chemical Evolution of Li- and Mn-Rich Layered Cathode Material. Chemistry of Materials, 2015, 27, 1381-1390.	3.2	311
92	Probing the Degradation Mechanism of $\text{Li}_2\text{MnO}_3$ Cathode for Li-Ion Batteries. Chemistry of Materials, 2015, 27, 975-982.	3.2	130
93	Study of the character of gold nanoparticles deposited onto sputtered cerium oxide layers by deposition-precipitation method: Influence of the preparation parameters. Vacuum, 2015, 114, 86-92.	1.6	10
94	Atomic-Resolution Visualization of Distinctive Chemical Mixing Behavior of Ni, Co, and Mn with Li in Layered Lithium Transition-Metal Oxide Cathode Materials. Chemistry of Materials, 2015, 27, 5393-5401.	3.2	108
95	High performance Li-ion sulfur batteries enabled by intercalation chemistry. Chemical Communications, 2015, 51, 13454-13457.	2.2	55
96	Effects of structural defects on the electrochemical activation of $\text{Li}_2\text{MnO}_3$ . Nano Energy, 2015, 16, 143-151.	8.2	73
97	Surface-Coating Regulated Lithiation Kinetics and Degradation in Silicon Nanowires for Lithium Ion Battery. ACS Nano, 2015, 9, 5559-5566.	7.3	118
98	Crystallographic dependence of photocatalytic activity of $\text{WO}_3$ thin films prepared by molecular beam epitaxy. Physical Chemistry Chemical Physics, 2015, 17, 15119-15123.	1.3	32
99	Visualizing nanoscale 3D compositional fluctuation of lithium in advanced lithium-ion battery cathodes. Nature Communications, 2015, 6, 8014.	5.8	112
100	Phosphorus Enrichment as a New Composition in the Solid Electrolyte Interphase of High-Voltage Cathodes and Its Effects on Battery Cycling. Chemistry of Materials, 2015, 27, 7447-7451.	3.2	37
101	In Situ Mass Spectrometric Determination of Molecular Structural Evolution at the Solid Electrolyte Interphase in Lithium-Ion Batteries. Nano Letters, 2015, 15, 6170-6176.	4.5	73
102	The Role of Cesium Cation in Controlling Interphasial Chemistry on Graphite Anode in Propylene Carbonate-Rich Electrolytes. ACS Applied Materials & Interfaces, 2015, 7, 20687-20695.	4.0	41
103	Evolution of Lattice Structure and Chemical Composition of the Surface Reconstruction Layer in $\text{Li}_{1.2}\text{Ni}_{0.2}\text{Mn}_{0.6}\text{O}_2$ Cathode Material for Lithium Ion Batteries. Nano Letters, 2015, 15, 514-522.	4.5	261
104	Functioning Mechanism of $\text{AlF}_3$ Coating on the Li- and Mn-Rich Cathode Materials. Chemistry of Materials, 2014, 26, 6320-6327.	3.2	333
105	An electrochemical device for the Knudsen and bulk diffusivity measurement in the anodes of solid oxide fuel cells. International Journal of Hydrogen Energy, 2014, 39, 15057-15062.	3.8	7
106	Reduction of thermal conductivity in dually doped ZnO by design of three-dimensional stacking faults. RSC Advances, 2014, 4, 2661-2672.	1.7	21
107	Mesoporous silicon sponge as an anti-pulverization structure for high-performance lithium-ion battery anodes. Nature Communications, 2014, 5, 4105.	5.8	1,160
108	Coulombic interaction in the colloidal oriented-attachment growth of tetragonal nanorods. Chinese Physics B, 2014, 23, 056103.	0.7	3

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109	Fabrication of a nano-structured Pt-loaded cerium oxide nanowire and its anode performance in the methanol electro-oxidation reaction. <i>Journal of Materials Chemistry A</i> , 2013, 1, 6262.	5.2	31
110	Microanalysis of a Grain Boundary's Blocking Effect in Lanthanum Silicate Electrolyte for Intermediate-Temperature Solid Oxide Fuel Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 5307-5313.	4.0	9
111	Microstructural and Chemical Characterization of Ordered Structure in Yttrium Doped Ceria. <i>Microscopy and Microanalysis</i> , 2013, 19, 102-110.	0.2	14
112	Pyramidal dislocation induced strain relaxation in hexagonal structured InGaN/AlGaIn/GaN multilayer. <i>Journal of Applied Physics</i> , 2012, 112, .	1.1	6
113	Improvement of Cathode Performance on Pt-CeO <sub>2</sub> by Optimization of Electrochemical Pretreatment Condition for PEFC Application. <i>Langmuir</i> , 2012, 28, 16692-16700.	1.6	35
114	Grain boundary's conductivity in heavily yttrium doped ceria. <i>Solid State Ionics</i> , 2012, 222-223, 31-37.	1.3	28
115	Preparation and performance of intermediate-temperature fuel cells based on Gd-doped ceria electrolytes with different compositions. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2012, 177, 1538-1541.	1.7	5
116	$\alpha$ - to $\beta$ -Al <sub>2</sub> O <sub>3</sub> martensitic transformation induced by pulsed laser irradiation. <i>Acta Materialia</i> , 2010, 58, 3867-3876.	3.8	23
117	Transmission electron microscopy study of stacking faults and their interaction with pyramidal dislocations in deformed Mg. <i>Acta Materialia</i> , 2010, 58, 173-179.	3.8	101
118	Effect of non-uniform stress characteristics on stress measurement in specimen. <i>Transactions of Nonferrous Metals Society of China</i> , 2010, 20, 789-794.	1.7	6
119	Tensile ductility and necking of metallic glass. <i>Nature Materials</i> , 2007, 6, 735-739.	13.3	509