

Jiang-Wen Liu

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/4642419/jiang-wen-liu-publications-by-year.pdf>

Version: 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

122
papers

4,978
citations

40
h-index

67
g-index

131
ext. papers

6,105
ext. citations

8.1
avg, IF

6.01
L-index

#	Paper	IF	Citations
122	Effective synthesis of magnesium borohydride via B-O to B-H bond conversion. <i>Chemical Engineering Journal</i> , 2022 , 432, 134322	14.7	1
121	Ti-Cr-Mn-Fe-based alloys optimized by orthogonal experiment for 85MPa hydrogen compression materials. <i>Journal of Alloys and Compounds</i> , 2022 , 891, 161791	5.7	3
120	Comparative study of Ga and Al alloying with ZrFe ₂ for high-pressure hydrogen storage. <i>International Journal of Hydrogen Energy</i> , 2022 , 47, 13409-13417	6.7	0
119	N-Doped Carbon Coated SnS/rGO Composite with Superior Cyclic Stability as Anode for Lithium-Ion Batteries. <i>Industrial & Engineering Chemistry Research</i> , 2022 , 61, 4339-4347	3.9	0
118	Using tetramethylammonium hydroxide electrolyte to inhibit corrosion of Mg-based amorphous alloy anodes: A route for promotion energy density of Ni-MH battery. <i>Journal of Alloys and Compounds</i> , 2022 , 907, 164293	5.7	1
117	Improving hydrogen-induced crystallization and electrochemical hydrogen storage properties of MgNi amorphous alloy with CoB addition. <i>Journal of Non-Crystalline Solids</i> , 2022 , 588, 121646	3.9	1
116	Overview of hydrogen compression materials based on a three-stage metal hydride hydrogen compressor. <i>Journal of Alloys and Compounds</i> , 2021 , 162465	5.7	4
115	Hydrogen Transportation Behaviour of V-Ni Solid Solution: A First-Principles Investigation. <i>Materials</i> , 2021 , 14,	3.5	1
114	Unraveling the Catalytic Activity of FeBased Compounds toward Li ₂ Sx in LiS Chemical System from d π Bands. <i>Advanced Energy Materials</i> , 2021 , 11, 2100673	21.8	29
113	Breaking the Passivation: Sodium Borohydride Synthesis by Reacting Hydrated Borax with Aluminum. <i>Chemistry - A European Journal</i> , 2021 , 27, 9087-9093	4.8	0
112	Tuning hydrogen storage thermodynamic properties of ZrFe ₂ by partial substitution with rare earth element Y. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 18445-18452	6.7	4
111	In-situ introducing TiP ₂ nanocrystals in black phosphorus anode to promote high rate-capacity synergy. <i>Journal of Power Sources</i> , 2021 , 499, 229979	8.9	4
110	Direct Detection and Visualization of the H Reaction Process in a VO Cathode for Aqueous Zinc-Ion Batteries. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 7076-7084	6.4	1
109	Phase transformation and hydrogen storage properties of LaY ₂ Ni _{10.5} superlattice alloy with single Gd ₂ Co ₇ -type or Ce ₂ Ni ₇ -type structure. <i>Journal of Alloys and Compounds</i> , 2021 , 868, 159254	5.7	4
108	Promoting the cycling stability of amorphous MgNi-based alloy electrodes by mitigating hydrogen-induced crystallization. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 6701-6708	6.7	1
107	Microsized SnS/Few-Layer Graphene Composite with Interconnected Nanosized Building Blocks for Superior Volumetric Lithium and Sodium Storage. <i>Energy and Environmental Materials</i> , 2021 , 4, 229-238	13	8
106	Exploring the Hydrogen-Induced Amorphization and Hydrogen Storage Reversibility of Y(Sc)Ni Laves Phase Compounds. <i>Materials</i> , 2021 , 14,	3.5	2

105	The Electrolyte Additive Effects on Commercialized Ni-Rich $\text{LiNi}_x\text{Co}_y\text{Mn}_z\text{O}_2$ ($x + y + z = 1$) Based Lithium-Ion Pouch Batteries at High Temperature. <i>ACS Applied Energy Materials</i> , 2021 , 4, 2292-2299	6.1	1
104	Li β Batteries: Unraveling the Catalytic Activity of Fe β Based Compounds toward Li 2 S x in Li β Chemical System from d β Bands (Adv. Energy Mater. 26/2021). <i>Advanced Energy Materials</i> , 2021 , 11, 2170101	21.8	1
103	An Al β alloy/water system for superior and low-temperature hydrogen production. <i>Inorganic Chemistry Frontiers</i> , 2021 , 8, 3473-3481	6.8	2
102	Constructing Li-Rich Artificial SEI Layer in Alloy-Polymer Composite Electrolyte to Achieve High Ionic Conductivity for All-Solid-State Lithium Metal Batteries. <i>Advanced Materials</i> , 2021 , 33, e2004711	24	32
101	Direct Microstructural Evidence on the Catalyzing Mechanism for De/hydrogenation of Mg by Multi-valence NbO x . <i>Journal of Physical Chemistry C</i> , 2020 , 124, 6571-6579	3.8	3
100	Magnesium-based hydrogen storage compounds: A review. <i>Journal of Alloys and Compounds</i> , 2020 , 832, 154865	5.7	84
99	Closing the Loop for Hydrogen Storage: Facile Regeneration of NaBH $_4$ from its Hydrolytic Product. <i>Angewandte Chemie</i> , 2020 , 132, 8701-8707	3.6	13
98	Flowerlike Ti-Doped MoO Conductive Anode Fabricated by a Novel NiTi Dealloying Method: Greatly Enhanced Reversibility of the Conversion and Intercalation Reaction. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 8240-8248	9.5	4
97	Closing the Loop for Hydrogen Storage: Facile Regeneration of NaBH from its Hydrolytic Product. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 8623-8629	16.4	116
96	High-pressure hydrogen storage performances of ZrFe $_2$ based alloys with Mn, Ti, and V addition. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 9836-9844	6.7	11
95	Engineering layer structure of MoS $_2$ /polyaniline/graphene nanocomposites to achieve fast and reversible lithium storage for high energy density aqueous lithium-ion capacitors. <i>Journal of Power Sources</i> , 2020 , 450, 227680	8.9	20
94	A phosphorus and carbon composite containing nanocrystalline Sb as a stable and high-capacity anode for sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 443-452	13	18
93	Enhanced hydrogen generation performance of CaMg $_2$ -based materials by ball milling. <i>Inorganic Chemistry Frontiers</i> , 2020 , 7, 918-929	6.8	8
92	Chemical bonding black phosphorus with TiO $_2$ and carbon toward high-performance lithium storage. <i>Journal of Power Sources</i> , 2020 , 449, 227549	8.9	21
91	Dual-Carbon-Confined SnS Nanostructure with High Capacity and Long Cycle Life for Lithium-ion Batteries. <i>Energy and Environmental Materials</i> , 2020 ,	13	8
90	Reaction Route Optimized LiBH $_4$ for High Reversible Capacity Hydrogen Storage by Tunable Surface-Modified AlN. <i>ACS Applied Energy Materials</i> , 2020 , 3, 11964-11973	6.1	7
89	Efficient Synthesis of Sodium Borohydride: Balancing Reducing Agents with Intrinsic Hydrogen Source in Hydrated Borax. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 13449-13458	8.3	6
88	Sn-C and Se-C Co-Bonding SnSe/Few-Layered Graphene Micro-Nano Structure: Route to a Densely Compacted and Durable Anode for Lithium/Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 36685-36696	9.5	36

- 87 Reducing the electrochemical capacity decay of milled Mg₉₅Li alloys: The role of stabilizing amorphous phase by Ti-substitution. *Journal of Power Sources*, **2019**, 438, 226984 8.9 9
- 86 Achieving high equilibrium pressure and low hysteresis of ZrFe based hydrogen storage alloy by Cr/V substitution. *Journal of Alloys and Compounds*, **2019**, 806, 1436-1444 5.7 12
- 85 Adding Metal Carbides to Suppress the Crystalline LiSi Formation: A Route toward Cycling Durable Si-Based Anodes for Lithium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2019**, 11, 38727-38738 5.5 17
- 84 Co-Substitution Enhances the Rate Capability and Stabilizes the Cyclic Performance of O3-Type Cathode NaNiMnTiCo O for Sodium-Ion Storage at High Voltage. *ACS Applied Materials & Interfaces*, **2019**, 11, 7906-7913 9.5 33
- 83 Nano-spatially confined and interface-controlled lithiation/delithiation in an in situ formed (SnS₂/FLG) composite: a route to an ultrafast and cycle-stable anode for lithium-ion batteries. *Journal of Materials Chemistry A*, **2019**, 7, 15320-15332 13 24
- 82 Regulation of high-efficient regeneration of sodium borohydride by magnesium-aluminum alloy. *International Journal of Hydrogen Energy*, **2019**, 44, 29108-29115 6.7 7
- 81 Exploration of Ti substitution in AB₂-type YZrFe based hydrogen storage alloys. *International Journal of Hydrogen Energy*, **2019**, 44, 29116-29122 6.7 7
- 80 Metallic Ni nanocatalyst in situ formed from LaNi₅H₅ toward efficient CO₂ methanation. *International Journal of Hydrogen Energy*, **2019**, 44, 29068-29074 6.7 8
- 79 Controllable Hydrolysis Performance of MgLi Alloys and Their Hydrides. *ChemPhysChem*, **2019**, 20, 1316-1324 3.24 17
- 78 Hydrogenation and crystallization of amorphous phase: A new mechanism for the electrochemical capacity and its decay in milled Mg Ni alloys. *Electrochimica Acta*, **2019**, 305, 145-154 6.7 9
- 77 Realizing facile regeneration of spent NaBH₄ with Mg₉₅Al alloy. *Journal of Materials Chemistry A*, **2019**, 7, 10723-10728 13 21
- 76 Low temperature de/hydrogenation in the partially crystallized Mg₆₀Ce₁₀Ni₂₀Cu₁₀ metallic glasses induced by milling with process control agents. *Journal of Alloys and Compounds*, **2019**, 792, 835-843 5.7 10
- 75 Growth mechanism of black phosphorus synthesized by different ball milling techniques. *Journal of Alloys and Compounds*, **2019**, 784, 339-346 5.7 24
- 74 Microstructural evolution and hydrogen storage properties of Mg_{1-x}Nb_x(x=0.17~0.76) alloy films via Co-Sputtering. *International Journal of Hydrogen Energy*, **2019**, 44, 29100-29107 6.7 4
- 73 Citraconic anhydride as an electrolyte additive to improve the high temperature performance of LiNi_{0.8}Co_{0.1}Mn_{0.1}O₂/graphite pouch batteries. *Journal of Alloys and Compounds*, **2019**, 805, 757-766 5.7 21
- 72 Converting H⁺ from coordinated water into H₂ enables super facile synthesis of LiBH₄. *Green Chemistry*, **2019**, 21, 4380-4387 10 96
- 71 Mechanistic Understanding of Metal Phosphide Host for Sulfur Cathode in High-Energy-Density Lithium-Sulfur Batteries. *ACS Nano*, **2019**, 13, 8986-8996 16.7 129
- 70 Achieving superior de-/hydrogenation properties of C15 Laves phase Y-Fe-Al alloys by A-side substitution. *Journal of Alloys and Compounds*, **2019**, 787, 158-164 5.7 7

69	A General Metal-Organic Framework (MOF)-Derived Selenidation Strategy for In Situ Carbon-Encapsulated Metal Selenides as High-Rate Anodes for Na-Ion Batteries. <i>Advanced Functional Materials</i> , 2018 , 28, 1707573	15.6	239
68	Oxygen-Incorporated and Polyaniline-Intercalated 1T/2H Hybrid MoS ₂ Nanosheets Arrayed on Reduced Graphene Oxide for High-Performance Supercapacitors. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 8128-8136	3.8	23
67	Sandwiched MoS ₂ /polyaniline nanosheets array vertically aligned on reduced graphene oxide for high performance supercapacitors. <i>Electrochimica Acta</i> , 2018 , 270, 387-394	6.7	48
66	Box office forecasting for a cinema with movie and cinema attributes 2018 ,		1
65	Improvement in the Electrochemical Lithium Storage Performance of MgH ₂ . <i>Inorganics</i> , 2018 , 6, 2	2.9	4
64	Destabilizing the dehydrogenating thermodynamics of MgH ₂ by reversible intermetallics formation in MgAgZn ternary alloys. <i>Journal of Power Sources</i> , 2018 , 396, 796-802	8.9	28
63	Nanoconfined Oxidation Synthesis of N-Doped Carbon Hollow Spheres and MnO Encapsulated Sulfur Cathode for Superior Li-S Batteries. <i>Chemistry - A European Journal</i> , 2018 , 24, 4573-4582	4.8	33
62	Enhanced cyclic stability of SnS microplates with conformal carbon coating derived from ethanol vapor deposition for sodium-ion batteries. <i>Applied Surface Science</i> , 2018 , 436, 912-918	6.7	18
61	Achieving High Dehydrogenation Kinetics and Reversibility of LiBH ₄ by Adding Nanoporous h-BN to Destabilize LiH. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 23336-23344	3.8	7
60	Lithium Difluorophosphate As a Promising Electrolyte Lithium Additive for High-Voltage Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2018 , 1, 2647-2656	6.1	42
59	FeP@C Nanotube Arrays Grown on Carbon Fabric as a Low Potential and Freestanding Anode for High-Performance Li-Ion Batteries. <i>Small</i> , 2018 , 14, e1800793	11	73
58	Exfoliation of MoS and h-BN nanosheets by hydrolysis of LiBH. <i>Nanotechnology</i> , 2017 , 28, 115604	3.4	22
57	3,3S(Ethylenedioxy)dipropionitrile as an Electrolyte Additive for 4.5 V LiNiCoMnO/Graphite Cells. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 9630-9639	9.5	36
56	Increasing de-/hydrogenating capacity and equilibrium pressure by designing non-stoichiometry in Al-substituted YFe ₂ compounds. <i>Journal of Alloys and Compounds</i> , 2017 , 704, 491-498	5.7	5
55	New Nanoconfined Galvanic Replacement Synthesis of Hollow Sb@C Yolk-Shell Spheres Constituting a Stable Anode for High-Rate Li/Na-Ion Batteries. <i>Nano Letters</i> , 2017 , 17, 2034-2042	11.5	306
54	Hierarchical nanoflowers assembled from MoS ₂ /polyaniline sandwiched nanosheets for high-performance supercapacitors. <i>Electrochimica Acta</i> , 2017 , 243, 98-104	6.7	44
53	Hydrogen generation from sodium borohydride hydrolysis accelerated by zinc chloride without catalyst: A kinetic study. <i>Journal of Alloys and Compounds</i> , 2017 , 717, 48-54	5.7	38
52	Air-stable hydrogen generation materials and enhanced hydrolysis performance of MgH ₂ -LiNH ₂ composites. <i>Journal of Power Sources</i> , 2017 , 359, 427-434	8.9	69

51	The milled LiBH ₄ /h-BN composites exhibiting unexpected hydrogen storage kinetics and reversibility. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 15790-15798	6.7	17
50	Hydrogen generation via hydrolysis of magnesium with seawater using Mo, MoO ₂ , MoO ₃ and MoS ₂ as catalysts. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 8566-8575	13	76
49	Facile synthesis of self-supported Mn ₃ O ₄ @C nanotube arrays constituting an ultrastable and high-rate anode for flexible Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 8555-8565	13	35
48	Origin of Capacity Increasing in a Long-Life Ternary SnFe ₃ O ₄ @Graphite Anode for Li-Ion Batteries. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1700113	4.6	39
47	Reversible hydrogen storage in yttrium aluminum hydride. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 60423604627	4.3	62
46	Self-Supported CoP Nanorod Arrays Grafted on Stainless Steel as an Advanced Integrated Anode for Stable and Long-Life Lithium-Ion Batteries. <i>Chemistry - A European Journal</i> , 2017 , 23, 5198-5204	4.8	65
45	A highly stable (SnO _x -Sn) _n @few layered graphene composite anode of sodium-ion batteries synthesized by oxygen plasma assisted milling. <i>Journal of Power Sources</i> , 2017 , 350, 1-8	8.9	65
44	Metal-Organic Framework-Derived NiSb Alloy Embedded in Carbon Hollow Spheres as Superior Lithium-Ion Battery Anodes. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 2516-2525	9.5	95
43	High Damping of Lightweight TiNi-Ti ₂ Ni Shape Memory Composites for Wide Temperature Range Usage. <i>Journal of Materials Engineering and Performance</i> , 2017 , 26, 4970-4976	1.6	8
42	A new method for few-layer graphene preparation via plasma-assisted ball milling. <i>Journal of Alloys and Compounds</i> , 2017 , 728, 578-584	5.7	60
41	Robust Pitaya-Structured Pyrite as High Energy Density Cathode for High-Rate Lithium Batteries. <i>ACS Nano</i> , 2017 , 11, 9033-9040	16.7	200
40	Progress of hydrogen storage alloys for Ni-MH rechargeable power batteries in electric vehicles: A review. <i>Materials Chemistry and Physics</i> , 2017 , 200, 164-178	4.4	132
39	Improving dehydrogenation properties of Mg/Nb composite films via tuning Nb distributions. <i>Rare Metals</i> , 2017 , 36, 574-580	5.5	9
38	Hydrogen generation properties and the hydrolysis mechanism of Zr(BH ₄) ₄ /BNH ₃ . <i>Journal of Materials Chemistry A</i> , 2017 , 5, 16630-16635	13	13
37	Hydrolysis and regeneration of sodium borohydride (NaBH ₄) [A combination of hydrogen production and storage. <i>Journal of Power Sources</i> , 2017 , 359, 400-407	8.9	129
36	Enhancing the Regeneration Process of Consumed NaBH ₄ for Hydrogen Storage. <i>Advanced Energy Materials</i> , 2017 , 7, 1700299	21.8	223
35	Mesoporous Mo ₂ C/N-doped carbon heteronanowires as high-rate and long-life anode materials for Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 10842-10849	13	119
34	Improved coulombic efficiency and cycleability of SnO ₂ @graphite composite anode with dual scale embedding structure. <i>RSC Advances</i> , 2016 , 6, 13384-13391	3.7	16

33	Silicon/Wolfram Carbide@Graphene composite: enhancing conductivity and structure stability in amorphous-silicon for high lithium storage performance. <i>Electrochimica Acta</i> , 2016 , 191, 462-472	6.7	29
32	A long-life nano-silicon anode for lithium ion batteries: supporting of graphene nanosheets exfoliated from expanded graphite by plasma-assisted milling. <i>Electrochimica Acta</i> , 2016 , 187, 1-10	6.7	68
31	Hydrogen-Induced Reversible Phase Transformations and Hydrogen Storage Properties of MgAgAl Ternary Alloys. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 27117-27127	3.8	13
30	Development of ZrFeV alloys for hybrid hydrogen storage system. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 11242-11253	6.7	62
29	A spherical SnFe ₃ O ₄ @graphite composite as a long-life and high-rate-capability anode for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 10321-10328	13	52
28	Reversible hydriding in YFeAl (x= 0.3, 0.5, 0.7) intermetallic compounds. <i>Journal of Alloys and Compounds</i> , 2016 , 689, 843-848	5.7	15
27	Express penetration of hydrogen on Mg(10 13) along the close-packed-planes. <i>Scientific Reports</i> , 2015 , 5, 10776	4.9	81
26	High speed abrasive electrical discharge machining of particulate reinforced metal matrix composites. <i>International Journal of Precision Engineering and Manufacturing</i> , 2015 , 16, 1399-1404	1.7	9
25	Composition design of TiCrMnFe alloys for hybrid high-pressure metal hydride tanks. <i>Journal of Alloys and Compounds</i> , 2015 , 639, 452-457	5.7	53
24	Phase transition and hydrogen storage properties of MgGa alloy. <i>Journal of Alloys and Compounds</i> , 2015 , 642, 180-184	5.7	39
23	Reversible hydrogen storage and phase transformation with altered desorption pressure in Mg ₉₀ In ₅ Cd ₅ ternary alloy. <i>Journal of Alloys and Compounds</i> , 2015 , 645, S103-S106	5.7	12
22	Deformable fibrous carbon supported ultrafine nano-SnO ₂ as a high volumetric capacity and cyclic durable anode for Li storage. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 15097-15107	13	44
21	Reversible De/hydriding Reactions between Two New MgInNi Compounds with Improved Thermodynamics and Kinetics. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 26858-26865	3.8	21
20	Advanced high-pressure metal hydride fabricated via TiCrMn alloys for hybrid tank. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 2717-2728	6.7	64
19	Facile synthesis of Ge@FLG composites by plasma assisted ball milling for lithium ion battery anodes. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 11280-11285	13	64
18	Structural characteristics and hydrogen storage properties of Sm ₂ Co ₇ . <i>Journal of Alloys and Compounds</i> , 2014 , 608, 14-18	5.7	45
17	Towards easy reversible dehydrogenation of LiBH ₄ by catalyzing hierarchic nanostructured CoB. <i>Nano Energy</i> , 2014 , 10, 235-244	17.1	40
16	MgTM (TM: Ti, Nb, V, Co, Mo or Ni) core-shell like nanostructures: synthesis, hydrogen storage performance and catalytic mechanism. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 9645-9655	13	167

- 15 Symbiotic CeH_{2.73}/CeO₂ catalyst: A novel hydrogen pump. *Nano Energy*, **2014**, 9, 80-87 17.1 115
- 14 A mechanical-force-driven physical vapour deposition approach to fabricating complex hydride nanostructures. *Nature Communications*, **2014**, 5, 3519 17.4 115
- 13 Comparative investigation on the hydrogenation/dehydrogenation characteristics and hydrogen storage properties of Mg₃Ag and Mg₃Y. *International Journal of Hydrogen Energy*, **2014**, 39, 13616-13621 6.7 38
- 12 Fully Reversible De/hydriding of Mg Base Solid Solutions with Reduced Reaction Enthalpy and Enhanced Kinetics. *Journal of Physical Chemistry C*, **2014**, 118, 12087-12096 3.8 37
- 11 Growth twinning behavior of cast Mg₂Sn_{1-x}Zn_x alloys. *Transactions of Nonferrous Metals Society of China*, **2014**, 24, 316-320 3.3 7
- 10 Facilitating de/hydrogenation by long-period stacking ordered structure in Mg based alloys. *International Journal of Hydrogen Energy*, **2013**, 38, 10438-10445 6.7 56
- 9 Remarkable enhancement in dehydrogenation of MgH₂ by a nano-coating of multi-valence Ti-based catalysts. *Journal of Materials Chemistry A*, **2013**, 1, 5603 13 164
- 8 Improving hydrogen storage properties of MgH₂ by addition of alkali hydroxides. *International Journal of Hydrogen Energy*, **2013**, 38, 10932-10938 6.7 16
- 7 Microsized Sn supported by NiTi alloy as a high-performance film anode for Li-ion batteries. *Journal of Materials Chemistry*, **2012**, 22, 9539 21
- 6 Enhancing the performance of Sn nanocomposite as lithium ion anode by discharge plasma assisted milling. *Journal of Materials Chemistry*, **2012**, 22, 8022 40
- 5 An amorphous wrapped nanorod LiV₃O₈ electrode with enhanced performance for lithium ion batteries. *RSC Advances*, **2012**, 2, 7273 3.7 36
- 4 Sn buffered by shape memory effect of NiTi alloys as high-performance anodes for lithium ion batteries. *Acta Materialia*, **2012**, 60, 4695-4703 8.4 43
- 3 Invariant Deformation Element Model Interpretation to the Crystallography of Diffusional Body-Centered-Cube to Face-Centered-Cube Phase Transformations. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2012**, 43, 3636-3641 2.3 2
- 2 Progress on Sn-based thin-film anode materials for lithium-ion batteries. *Science Bulletin*, **2012**, 57, 4119-4130 43
- 1 Altered desorption enthalpy of MgH₂ by the reversible formation of Mg(In) solid solution. *Scripta Materialia*, **2011**, 65, 285-287 5.6 87