

# Tsan Yao Chen

## List of Publications by Year in descending order

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109  
papers

2,699  
citations

186265

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111  
docs citations

111  
times ranked

4154  
citing authors

#	ARTICLE	IF	CITATIONS
1	Polymorphic transition to metastable phases in hollow structured silicon anode in a Li-ions battery. Applied Materials Today, 2022, 26, 101333.	4.3	2
2	Collaboration between a Pt-dimer and neighboring Coâ€“Pd atoms triggers efficient pathways for oxygen reduction reaction. Physical Chemistry Chemical Physics, 2021, 23, 1822-1834.	2.8	16
3	Preferential lattice expansion of polypropylene in a trilayer polypropylene/polyethylene/polypropylene microporous separator in Li-ion batteries. Scientific Reports, 2021, 11, 1929.	3.3	3
4	Tri-atomic Pt clusters induce effective pathways in a Co<sub>core</sub>â€“Pd<sub>shell</sub> nanocatalyst surface for a high-performance oxygen reduction reaction. Physical Chemistry Chemical Physics, 2021, 23, 18012-18025.	2.8	5
5	Interfacial atomic Ni tetragon intercalation in a NiO<sub>2</sub>-to-Pd hetero-structure triggers superior HER activity to the Pt catalyst. Journal of Materials Chemistry A, 2021, 9, 12019-12028.	10.3	19
6	Bifunctional Ptâ€“SnO<sub>x</sub> nanorods for enhanced oxygen reduction and hydrogen evolution reactions. Sustainable Energy and Fuels, 2021, 5, 2960-2971.	4.9	10
7	NiO<sub>x</sub>-supported PtRh nanoalloy enables high-performance hydrogen evolution reaction under universal pH conditions. Sustainable Energy and Fuels, 2021, 5, 5490-5504.	4.9	14
8	Determining the Molecular Orientation on the Metal Nanoparticle Surface through Surface-Enhanced Raman Spectroscopy and Density Functional Theory Simulations. Journal of Physical Chemistry C, 2021, 125, 16289-16295.	3.1	8
9	Characterizing porous microaggregates and soil organic matter sequestered in allophanic paleosols on Holocene tephra using synchrotron-based X-ray microscopy and spectroscopy. Scientific Reports, 2021, 11, 21310.	3.3	6
10	Enhanced CO<sub>2</sub> Electrochemical Reduction Performance over Cu@AuCu Catalysts at High Noble Metal Utilization Efficiency. Nano Letters, 2021, 21, 9293-9300.	9.1	33
11	Submillisecond Laser Annealing Induced Surface and Subsurface Restructuring of Cuâ€“Niâ€“Pd Trimetallic Nanocatalyst Promotes Thermal CO<sub>2</sub> Reduction. ACS Applied Energy Materials, 2021, 4, 14043-14058.	5.1	19
12	Sub-nanometer Pt cluster decoration enhances the oxygen reduction reaction performances of NiO<sub>x</sub> supported Pd nano-islands. Sustainable Energy and Fuels, 2020, 4, 809-823.	4.9	19
13	Heterogeneous NiO<sub>2</sub>-to-Pd Epitaxial Structure Performs Outstanding Oxygen Reduction Reaction Activity. Journal of Physical Chemistry C, 2020, 124, 2295-2306.	3.1	28
14	<i>In operando</i> synchrotron X-ray studies of a novel spinel (Ni<sub>0.2</sub>Co<sub>0.2</sub>Mn<sub>0.2</sub>Fe<sub>0.2</sub>Ti<sub>0.2</sub>)<sub>3</sub>O<sub>4</sub>, high-entropy oxide for energy storage applications. Journal of Materials Chemistry A, 2020, 8, 21756-21770.	10.3	66
15	An electrolyte additive with boron-nitrogen-oxygen alkyl group enabled stable cycling for high voltage LiNi0.5Mn1.5O4 cathode in lithium-ion battery. Journal of Power Sources, 2020, 477, 228473.	7.8	17
16	Recent Advancements and Future Prospects of Noble Metal-Based Heterogeneous Nanocatalysts for Oxygen Reduction and Hydrogen Evolution Reactions. Applied Sciences (Switzerland), 2020, 10, 7708.	2.5	34
17	High-Performance and Stable Hydrogen Evolution Reaction Achieved by Pt Trimer Decoration on Ultralow-Metal Loading Bimetallic PtPd Nanocatalysts. ACS Applied Energy Materials, 2020, 3, 11142-11152.	5.1	18
18	Applications of different nano-sized conductive materials in high energy density pouch type lithium ion batteries. Electrochimica Acta, 2020, 362, 137166.	5.2	4

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19	Keplerate-type polyoxometalate {Mo <sub>72</sub> Fe <sub>30</sub> } nanoparticle anodes for high-energy lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 21623-21633.	10.3	20
20	<i>Operando</i> X-ray Studies of High-Performance Lithium-Ion Storage in Keplerate-Type Polyoxometalate Anodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 40296-40309.	8.0	17
21	Promoting formic acid oxidation performance of Pd nanoparticles <i>via</i> Pt and Ru atom mediated surface engineering. <i>RSC Advances</i> , 2020, 10, 17302-17310.	3.6	19
22	Heterogeneous assembly of Pt-clusters on hierarchically structured CoO <sub>x</sub> @SnPd <sub>2</sub> @SnO <sub>2</sub> quaternary nanocatalysts manifesting oxygen reduction reaction performance. <i>New Journal of Chemistry</i> , 2020, 44, 9712-9724.	2.8	16
23	Local synergetic collaboration between Pd and local tetrahedral symmetric Ni oxide enables ultra-high-performance CO <sub>2</sub> thermal methanation. <i>Journal of Materials Chemistry A</i> , 2020, 8, 12744-12756.	10.3	18
24	Ir-oxide mediated surface restructure and corresponding impacts on durability of bimetallic NiO <sub>x</sub> @Pd nanocatalysts in oxygen reduction reaction. <i>Journal of Alloys and Compounds</i> , 2020, 844, 156160.	5.5	21
25	A highly mismatched NiO <sub>2</sub> -to-Pd hetero-structure as an efficient nanocatalyst for the hydrogen evolution reaction. <i>Sustainable Energy and Fuels</i> , 2020, 4, 2541-2550.	4.9	24
26	Effects of Au-Fe Nanocluster on Neuron Differentiation with Electric Stimulation. <i>Biophysical Journal</i> , 2020, 118, 455a.	0.5	0
27	CO-Reductive and O <sub>2</sub> -Oxidative Annealing Assisted Surface Restructure and Corresponding Formic Acid Oxidation Performance of PdPt and PdRuPt Nanocatalysts. <i>Scientific Reports</i> , 2020, 10, 8457.	3.3	9
28	Local Structural Disorder Enhances the Oxygen Reduction Reaction Activity of Carbon-Supported Low Pt Loading CoPt Nanocatalysts. <i>Journal of Physical Chemistry C</i> , 2019, 123, 19013-19021.	3.1	18
29	Conformational Effects of Pt-Shells on Nanostructures and Corresponding Oxygen Reduction Reaction Activity of Au-Cluster-Decorated NiO <sub>x</sub> @Pt Nanocatalysts. <i>Nanomaterials</i> , 2019, 9, 1003.	4.1	14
30	Platinum-trimer decorated cobalt-palladium core-shell nanocatalyst with promising performance for oxygen reduction reaction. <i>Nature Communications</i> , 2019, 10, 440.	12.8	115
31	Vanadium-based polyoxometalate as electron/ion sponge for lithium-ion storage. <i>Journal of Power Sources</i> , 2019, 435, 226702.	7.8	30
32	Effects of Pt metal loading on the atomic restructure and oxygen reduction reaction performance of Pt-cluster decorated Cu@Pd electrocatalysts. <i>Sustainable Energy and Fuels</i> , 2019, 3, 1668-1681.	4.9	19
33	Cyclability evaluation on Si based Negative Electrode in Lithium ion Battery by Graphite Phase Evolution: an operando X-ray diffraction study. <i>Scientific Reports</i> , 2019, 9, 1299.	3.3	5
34	H <sub>2</sub> Reduction Annealing Induced Phase Transition and Improvements on Redox Durability of Pt Cluster-Decorated Cu@Pd Electrocatalysts in Oxygen Reduction Reaction. <i>ACS Omega</i> , 2019, 4, 971-982.	3.5	15
35	Influence of Glucose Derivatives on Ball-Milled Si for Negative Electrodes with High Area Capacity in Lithium-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 2971-2979.	6.7	8
36	Atomic scale Pt decoration promises oxygen reduction properties of Co@Pd nanocatalysts in alkaline electrolytes for 310k redox cycles. <i>Sustainable Energy and Fuels</i> , 2018, 2, 946-957.	4.9	13

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37	Promotion of Ternary Pt-Sn-Ag Catalysts toward Ethanol Oxidation Reaction: Revealing Electronic and Structural Effects of Additive Metals. ACS Energy Letters, 2018, 3, 2550-2557.	17.4	41
38	Pt <sub>3</sub> clusters-decorated Co@Pd and Ni@Pd model core-shell catalyst design for the oxygen reduction reaction: a DFT study. Journal of Materials Chemistry A, 2018, 6, 23326-23335.	10.3	26
39	Mechanism of Sodium Ion Storage in Na <sub>7</sub> [H <sub>2</sub> PV <sub>14</sub> O <sub>42</sub> ] Anode for Sodium-ion Batteries. Advanced Materials Interfaces, 2018, 5, 1800491.	3.7	18
40	Mechanochemical synthesis of Si/Cu <sub>3</sub> Si-based composite as negative electrode materials for lithium ion battery. Scientific Reports, 2018, 8, 12695.	3.3	8
41	Programming ORR Activity of Ni/NiO <sub>x</sub> @Pd Electrocatalysts via Controlling Depth of Surface-Decorated Atomic Pt Clusters. ACS Omega, 2018, 3, 8733-8744.	3.5	27
42	Nitrogen doping in Ta <sub>2</sub> O <sub>5</sub> and its implication for photocatalytic H <sub>2</sub> production. Applied Surface Science, 2018, 459, 477-482.	6.1	27
43	X-ray Absorption Spectroscopy and In-Operando Neutron Diffraction Studies on Local Structure Fading Induced Irreversibility in a 18-hr 650 Cell with P <sub>2</sub> Na <sub>2</sub> /3Fe <sub>1</sub> /3Mn <sub>2</sub> /3O <sub>2</sub> Cathode in a Long Cycle Test. Journal of Physical Chemistry C, 2018, 122, 12623-12632.	3.1	10
44	Crystal shape controlled H <sub>2</sub> storage rate in nanoporous carbon composite with ultra-fine Pt nanoparticle. Scientific Reports, 2017, 7, 42438.	3.3	6
45	Enhanced electrochemical degradation of ibuprofen in aqueous solution by PtRu alloy catalyst. Chemosphere, 2017, 175, 76-84.	8.2	25
46	Heterogeneous Cu-Pd binary interface boosts stability and mass activity of atomic Pt clusters in the oxygen reduction reaction. Nanoscale, 2017, 9, 7207-7216.	5.6	21
47	The synergistic effects of combining the high energy mechanical milling and wet milling on Si negative electrode materials for lithium ion battery. Journal of Power Sources, 2017, 349, 111-120.	7.8	30
48	Rapid crystal growth of bimetallic PdPt nanocrystals with surface atomic Pt cluster decoration provides promising oxygen reduction activity. RSC Advances, 2017, 7, 55110-55120.	3.6	10
49	Amide-Functionalized Small Molecules as Solution-Processed Electron Injection Layers in Highly Efficient Polymer Light-Emitting Diodes. Advanced Materials Interfaces, 2016, 3, 1500621.	3.7	5
50	Shell thickness effects on reconfiguration of NiO-core-Pt-shell anodic catalysts in a high current density direct methanol fuel cell. RSC Advances, 2016, 6, 72607-72615.	3.6	5
51	Lithiation-induced crystal restructuring of hydrothermally prepared Sn/TiO <sub>2</sub> nanocrystallite with substantially enhanced capacity and cycling performance for lithium-ion battery. RSC Advances, 2016, 6, 48620-48629.	3.6	3
52	Size Effect of Atomic Gold Clusters for Carbon Monoxide Passivation at Ru-core-Pt-shell Nanocatalysts. Journal of Physical Chemistry C, 2016, 120, 7621-7628.	3.1	3
53	Photolysis and photocatalytic decomposition of sulfamethazine antibiotics in an aqueous solution with TiO <sub>2</sub> . RSC Advances, 2016, 6, 69301-69310.	3.6	48
54	Accumulation of heavy metals and trace elements in fluvial sediments received effluents from traditional and semiconductor industries. Scientific Reports, 2016, 6, 34250.	3.3	74

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55	Local heterojunctions of atomic Pt clusters boost the oxygen reduction activity of Ru@Pd shell nanocrystallites. <i>Journal of Materials Chemistry A</i> , 2016, 4, 17848-17856.	10.3	3
56	Stabilization of Natural Organic Matter by Short-Range-Order Iron Hydroxides. <i>Environmental Science &amp; Technology</i> , 2016, 50, 12612-12620.	10.0	75
57	The size effect of silver nanocubes on gap-mode surface enhanced Raman scattering substrate. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 69, 146-150.	5.3	10
58	Molecular Structures of Al/Si and Fe/Si Coprecipitates and the Implication for Selenite Removal. <i>Scientific Reports</i> , 2016, 6, 24716.	3.3	9
59	Self-aligned synthesis of a NiPt-alloy@Pt shell nanocrystal with controllable heterojunction structure and oxygen reduction activity. <i>CrystEngComm</i> , 2016, 18, 5860-5868.	2.6	8
60	DNA adsorption by nanocrystalline allophane spherules and nanoaggregates, and implications for carbon sequestration in Andisols. <i>Applied Clay Science</i> , 2016, 120, 40-50.	5.2	37
61	Real-time XRD and XAS investigation on the influences of vanadium additives to the structural chemical state evolutions of LiFePO <sub>4</sub> of a lithium-ion. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2015, 71, s343-s343.	0.1	0
62	Mechanism of Arsenic Adsorption on Magnetite Nanoparticles from Water: Thermodynamic and Spectroscopic Studies. <i>Environmental Science &amp; Technology</i> , 2015, 49, 7726-7734.	10.0	314
63	The performance and stability of the oxygen reduction reaction on Pt@M (M = Pd, Ag and Au) nanorods: an experimental and computational study. <i>Chemical Communications</i> , 2015, 51, 6605-6608.	4.1	44
64	The structure-dependent quantum yield of ZnCdS nanocrystals. <i>CrystEngComm</i> , 2015, 17, 5032-5037.	2.6	7
65	Gold atomic clusters extracting the valence electrons to shield the carbon monoxide passivation on near-monolayer core@shell nanocatalysts in methanol oxidation reactions. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 15131-15139.	2.8	10
66	3D Atomic Arrangement at Functional Interfaces Inside Nanoparticles by Resonant High-Energy X-ray Diffraction. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 23265-23277.	8.0	10
67	Improving interfacial electron transfer and light harvesting in dye-sensitized solar cells by using Ag nanowire/TiO <sub>2</sub> nanoparticle composite films. <i>RSC Advances</i> , 2015, 5, 70172-70177.	3.6	26
68	Core@shell nanocrystallite growth via heterogeneous interface manipulation. <i>CrystEngComm</i> , 2015, 17, 8623-8631.	2.6	4
69	Local structure distortion induced by Ti dopants boosting the pseudocapacitance of RuO <sub>2</sub> -based supercapacitors. <i>Nanoscale</i> , 2015, 7, 15450-15461.	5.6	22
70	Heterojunction confinement on the atomic structure evolution of near monolayer core@shell nanocatalysts in redox reactions of a direct methanol fuel cell. <i>Journal of Materials Chemistry A</i> , 2015, 3, 1518-1529.	10.3	34
71	Mesoporous TiO <sub>2</sub> film modified with a sol-gel based interconnecting network for boosting the dye-sensitized solar cell performance. <i>Thin Solid Films</i> , 2014, 570, 268-272.	1.8	8
72	Structural evolution in LiFePO <sub>4</sub> -based battery materials: In-situ and ex-situ time-of-flight neutron diffraction study. <i>Journal of Power Sources</i> , 2014, 258, 356-364.	7.8	52

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73	Near-Monolayer Platinum Shell on Core-Shell Nanocatalysts for High-Performance Direct Methanol Fuel Cell. <i>Journal of Physical Chemistry C</i> , 2014, 118, 2253-2262.	3.1	28
74	Capacitive performance enhancements of RuO <sub>2</sub> nanocrystals through manipulation of preferential orientation growth originated from the synergy of Pluronic F127 trapping and annealing. <i>Nanoscale</i> , 2014, 6, 2861.	5.6	21
75	Graphene-supported Pt and PtPd nanorods with enhanced electrocatalytic performance for the oxygen reduction reaction. <i>Chemical Communications</i> , 2014, 50, 11165-11168.	4.1	39
76	Significance of ions with an ordered arrangement for enhancing the electron injection/extraction in polymer optoelectronic devices. <i>Journal of Materials Chemistry C</i> , 2014, 2, 4805-4811.	5.5	8
77	Oxidation triggered atomic restructures enhancing the electrooxidation activities of carbon supported platinum-ruthenium catalysts. <i>CrystEngComm</i> , 2014, 16, 10066-10079.	2.6	6
78	Correlation between surface state and band edge emission of white light ZnxCd1-xS nanocrystals. <i>Journal of Materials Chemistry C</i> , 2014, 2, 2664.	5.5	16
79	Oxidative precipitation of ruthenium oxide for supercapacitors: Enhanced capacitive performances by adding cetyltrimethylammonium bromide. <i>Journal of Power Sources</i> , 2014, 268, 430-438.	7.8	23
80	Real-time investigation on the influences of vanadium additives to the structural and chemical state evolutions of LiFePO <sub>4</sub> for enhancing the electrochemical performance of lithium-ion battery. <i>Journal of Power Sources</i> , 2014, 270, 449-456.	7.8	8
81	Effective anodic oxidation of naproxen by platinum nanoparticles coated FTO glass. <i>Journal of Hazardous Materials</i> , 2014, 277, 110-119.	12.4	35
82	Heterogeneous junction engineering on core-shell nanocatalysts boosts the dye-sensitized solar cell. <i>Nanoscale</i> , 2013, 5, 9181.	5.6	15
83	Thermal-induced growth of RuO <sub>2</sub> nanorods from a binary Ru-Ti oxide composite and alteration in supercapacitive characteristics. <i>Journal of Materials Chemistry A</i> , 2013, 1, 2039-2049.	10.3	20
84	Selenium Speciation in Coal Ash Spilled at the Tennessee Valley Authority Kingston Site. <i>Environmental Science &amp; Technology</i> , 2013, 47, 14001-14009.	10.0	43
85	Core-dependent growth of platinum shell nanocrystals and their electrochemical characteristics for fuel cells. <i>CrystEngComm</i> , 2013, 15, 982-994.	2.6	11
86	Ruthenium core-activated platinum monolayer shell high redox activity cathodic electrocatalysts for dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 5660.	10.3	12
87	Crystal growth of platinum-ruthenium bimetallic nanocrystallites and their methanol electrooxidation activity. <i>CrystEngComm</i> , 2013, 15, 3932.	2.6	11
88	Enhanced performance of polymer solar cells using solution-processed tetra-n-alkyl ammonium bromides as electron extraction layers. <i>Journal of Materials Chemistry A</i> , 2013, 1, 2582.	10.3	36
89	Formation of self-aggregated and interconnected silver network within sol-gel silica. <i>Journal of Materials Science</i> , 2013, 48, 850-856.	3.7	4
90	Biogeochemical reductive release of soil embedded arsenate around a crater area (Guandu) in northern Taiwan using X-ray absorption near-edge spectroscopy. <i>Journal of Environmental Sciences</i> , 2013, 25, 626-636.	6.1	5

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91	The effect of Mn addition on the promotion of oxygen reduction reaction performance for PtCo/C catalysts. <i>Electrochimica Acta</i> , 2013, 105, 180-187.	5.2	15
92	Enhancement of electrochemical properties of Pd/C catalysts toward ethanol oxidation reaction in alkaline solution through Ni and Au alloying. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 4474-4482.	7.1	54
93	Controlling Interconnected Silver Network Structure in Sol-Gel Nanocomposite Via Shrinkage-Induced Stress. <i>Advanced Engineering Materials</i> , 2013, 15, 34-39.	3.5	2
94	The structure modification and activity improvement of Pd-Co/C electrocatalysts by the addition of Au for the oxygen reduction reaction. <i>Catalysis Science and Technology</i> , 2012, 2, 1654.	4.1	12
95	Core Dominated Surface Activity of Core-Shell Nanocatalysts on Methanol Electrooxidation. <i>Journal of Physical Chemistry C</i> , 2012, 116, 16969-16978.	3.1	32
96	Structure and magnetism of BaTi <sub>1-x</sub> Fe <sub>x</sub> O <sub>3</sub> multiferroics. <i>Journal of Applied Physics</i> , 2012, 111, .	2.5	6
97	Self-assembled tetraoctylammonium bromide as an electron-injection layer for cathode-independent high-efficiency polymer light-emitting diodes. <i>Journal of Materials Chemistry</i> , 2011, 21, 8715.	6.7	29
98	Tetragonal and hexagonal polymorphs of BaTi <sub>1-x</sub> Fe <sub>x</sub> O <sub>3</sub> multiferroics using x-ray and Raman analyses. <i>Applied Physics Letters</i> , 2011, 99, .	3.3	41
99	Hydrogen Spillover Effect of Pt-Doped Activated Carbon Studied by Inelastic Neutron Scattering. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 2322-2325.	4.6	51
100	Effects of Pt Shell Thicknesses on the Atomic Structure of Ru-Pt Core-Shell Nanoparticles for Methanol Electrooxidation Applications. <i>ChemPhysChem</i> , 2010, 11, 2383-2392.	2.1	58
101	Mechanistic study of arsenate adsorption on lithium/aluminum layered double hydroxide. <i>Applied Clay Science</i> , 2010, 48, 485-491.	5.2	28
102	Fabricating Nanocomposite Catalysts through Interfacial Fusion of Metallic Nanoparticles. <i>Materials Research Society Symposia Proceedings</i> , 2009, 1217, 1.	0.1	1
103	Adsorption mechanism of selenate and selenite on the binary oxide systems. <i>Water Research</i> , 2009, 43, 4412-4420.	11.3	122
104	Hybrid Silver Nanowire/Titanium Oxides Nanocomposites as Anode for Dye-Sensitized Solar Cell Application. <i>Journal of the Chinese Chemical Society</i> , 2009, 56, 1244-1249.	1.4	16
105	Improved Catalytic Performance of Pt Supported on Multi-Wall Carbon Nanotubes as Cathode for Direct Methanol Fuel Cell Applications Prepared by Dual-Stepped Surface Thiolation Processes. <i>Journal of the Chinese Chemical Society</i> , 2009, 56, 1236-1243.	1.4	11
106	A Mechanism Study on the Synthesis of Cu/Pd Nanoparticles with Citric Complexing Agent. <i>Journal of Physical Chemistry C</i> , 2007, 111, 12873-12876.	3.1	13
107	Fractal aggregates of the Pt nanoparticles synthesized by the polyol process and poly(N-vinyl-2-pyrrolidone) reduction. <i>Journal of Applied Crystallography</i> , 2007, 40, s540-s543.	4.5	36
108	Arsenate Sorption on Lithium/Aluminum Layered Double Hydroxide Intercalated by Chloride and on Gibbsite: Sorption Isotherms, Envelopes, and Spectroscopic Studies. <i>Environmental Science &amp; Technology</i> , 2006, 40, 7784-7789.	10.0	63

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109	Catalyst Improvement of Utilization for Direct Methanol Fuel Cell Using Silane Coupling Agents. <i>Electrochemical and Solid-State Letters</i> , 2006, 9, A549.	2.2	3