Hsien-Ming Kao

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	The effect of carbon coating thickness on the capacity of LiFePO4/C composite cathodes. Journal of Power Sources, 2009, 189, 256-262.	7.8	225
2	Functionalization of cubic mesoporous silica SBA-16 with carboxylic acid via one-pot synthesis route for effective removal of cationic dyes. Journal of Hazardous Materials, 2016, 309, 236-248.	12.4	114
3	Highly conductive and electrochemically stable plasticized blend polymer electrolytes based on PVdF-HFP and triblock copolymer PPG-PEG-PPG diamine for Li-ion batteries. Journal of Power Sources, 2011, 196, 2826-2834.	7.8	98
4	Size-Tunable Ni Nanoparticles Supported on Surface-Modified, Cage-Type Mesoporous Silica as Highly Active Catalysts for CO ₂ Hydrogenation. ACS Catalysis, 2017, 7, 8367-8381.	11.2	97
5	A comparative study of ordered mesoporous carbons with different pore structures as anode materials for lithium-ion batteries. RSC Advances, 2015, 5, 42922-42930.	3.6	73
6	Size-adjustable annular ring-functionalized mesoporous silica as effective and selective adsorbents for heavy metal ions. RSC Advances, 2013, 3, 25686.	3.6	62
7	A simple one-pot route to mesoporous silicas SBA-15 functionalized with exceptionally high loadings of pendant carboxylic acid groups. Chemical Communications, 2009, , 5018.	4.1	60
8	Highly enhanced electrochemical performance of ultrafine CuO nanoparticles confined in ordered mesoporous carbons as anode materials for sodium-ion batteries. Journal of Materials Chemistry A, 2016, 4, 14222-14233.	10.3	58
9	Exceptional catalytic performance of ultrafine Cu2O nanoparticles confined in cubic mesoporous carbon for 4-nitrophenol reduction. Applied Surface Science, 2018, 427, 1217-1226.	6.1	57
10	Bimetallic Co/Zn zeolitic imidazolate framework ZIF-67 supported Cu nanoparticles: An excellent catalyst for reduction of synthetic dyes and nitroarenes. Journal of Hazardous Materials, 2021, 407, 124392.	12.4	56
11	27Al and19F Solid-State NMR Studies of Zeolite H-β Dealuminated with Ammonium Hexafluorosilicate. Journal of Physical Chemistry B, 2003, 107, 3367-3375.	2.6	55
12	Multinuclear Solid-State NMR, Self-Diffusion Coefficients, Differential Scanning Calorimetry, and Ionic Conductivity of Solid Organicâ l'Inorganic Hybrid Electrolytes Based on PPGâ PEGâ PPG Diamine, Siloxane, and Lithium Perchlorate. Macromolecules, 2006, 39, 1029-1040.	4.8	51
13	Multinuclear Solid-State NMR Characterization, Ion Dissociation, and Dynamic Properties of Lithium-Doped Organicâ^'Inorganic Hybrid Electrolytes Based on Ureasils. Macromolecules, 2007, 40, 8673-8683.	4.8	46
14	Physical and electrochemical properties of La-doped LiFePO4/C composites as cathode materials for lithium-ion batteries. Journal of Solid State Electrochemistry, 2008, 12, 815-823.	2.5	46
15	[Ga4(C10H9N2)2(PO4)(H0.5PO4)2(HPO4)2(H2PO4)2(H2O)2]·H2O: a novel one-dimensional chain structure containing four different types of monophosphate. Chemical Communications, 2000, , 1061-1062.	4.1	40
16	An Organic–Inorganic Hybrid Electrolyte Derived from Self-Assembly of a Poly(Ethylene) Tj ETQq0 0 0 rgBT /Ove International Edition, 2004, 43, 980-984.	erlock 10 T 13.8	f 50 147 Td 38
17	A new highly conductive organic-inorganic solid polymer electrolyte based on a di-ureasil matrix doped with lithium perchlorate. Journal of Materials Chemistry, 2011, 21, 10542.	6.7	38
	Synthesis and characterization of a highly conductive organic–inorganic hybrid polymer electrolyte		

based on amine terminated triblock polyethers and its application in electrochromic devices. Journal
5.5 37
of Materials Chemistry C, 2014, 2, 331-343.

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19	Comparative Study on the Morphology-Dependent Performance of Various CuO Nanostructures as Anode Materials for Sodium-Ion Batteries. ACS Sustainable Chemistry and Engineering, 2018, 6, 10876-10885.	6.7	37
20	Synthesis and characterization of large pore cubic mesoporous silicas functionalized with high contents of carboxylic acid groups and their use as adsorbents. Applied Catalysis B: Environmental, 2013, 142-143, 817-827.	20.2	35
21	Ni Nanoparticles Supported on Cageâ€Type Mesoporous Silica for CO ₂ Hydrogenation with High CH ₄ Selectivity. ChemSusChem, 2016, 9, 2326-2331.	6.8	35
22	A Waterâ€Soluble NaCMC/NaPAA Binder for Exceptional Improvement of Sodiumâ€ion Batteries with an SnO ₂ â€Ordered Mesoporous Carbon Anode. ChemSusChem, 2018, 11, 3923-3931.	6.8	34
23	Size dependence of silver nanoparticles in carboxylic acid functionalized mesoporous silica SBA-15 for catalytic reduction of 4-nitrophenol. RSC Advances, 2016, 6, 35167-35176.	3.6	33
24	Three-dimensional interpenetrating mesoporous carbon confining SnO ₂ particles for superior sodiation/desodiation properties. Nanoscale, 2017, 9, 8674-8683.	5.6	33
25	Catalytic evaluation of tunable Ni nanoparticles embedded in organic functionalized 2D and 3D ordered mesoporous silicas from the hydrogenation of nitroarenes. Journal of Catalysis, 2019, 370, 274-288.	6.2	33
26	The First Observation of Heteronuclear Two-BondJ-Coupling in the Solid State:Â Crystal Structure and Solid-State NMR Spectroscopy of Rb4(NbO)2(Si8O21). Inorganic Chemistry, 2002, 41, 5644-5646.	4.0	32
27	Phase control of cubic SBA-1 mesostructures via alcohol-assisted synthesis. Journal of Materials Chemistry, 2005, 15, 2989.	6.7	32
28	Encapsulation of LiFePO ₄ Nanoparticles into 3D Interpenetrating Ordered Mesoporous Carbon as a High-Performance Cathode for Lithium-Ion Batteries Exceeding Theoretical Capacity. ACS Applied Energy Materials, 2019, 2, 1121-1133.	5.1	31
29	Direct7Li NMR Spectral Evidence for Different Li+Local Environments in a Polyether Poly(urethane) Tj ETQq1 1 C).784314 r 4.8	gBT_{0verloc
30	Ultrafine bimetallic Ag-doped Ni nanoparticles embedded in cage-type mesoporous silica SBA-16 as superior catalysts for conversion of toxic nitroaromatic compounds. Journal of Hazardous Materials, 2020, 384, 121270.	12.4	30
31	New highly conductive organic–inorganic hybrid electrolytes based on star-branched silica based architectures. Polymer, 2012, 53, 6008-6020.	3.8	29
32	pH responsive selective protein adsorption by carboxylic acid functionalized large pore mesoporous silica nanoparticles SBA-1. Materials Science and Engineering C, 2019, 94, 344-356.	7.3	29
33	Synthesis and Characterization of Fluorinated Metal Arsenates with a Layer Structure:Â (C4H12N2)1.5[M3F5(HAsO4)2(AsO4)] (M = Fe, Ga). Inorganic Chemistry, 2001, 40, 5381-5384.	4.0	28
34	Facile synthesis of stable cubic mesoporous silica SBA-1 over a broad temperature range with the aid of d-fructose. Chemical Communications, 2005, , 1058.	4.1	28
35	Synthesis of highly phosphonic acid functionalized benzene-bridged periodic mesoporous organosilicas for use as efficient dye adsorbents. Journal of Hazardous Materials, 2014, 278, 539-550.	12.4	27
36	Silver particles deposited onto magnetic carbon nanofibers as highly active catalysts for 4-nitrophenol reduction. Applied Catalysis B: Environmental, 2022, 315, 121596.	20.2	27

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37	Hydrothermal Synthesis, Crystal Structure, Solid-State NMR Spectroscopy, and Ionic Conductivity of Na5InSi4O12, a Silicate Containing a Single 12-Membered Ring. Chemistry of Materials, 2004, 16, 1660-1666.	6.7	26
38	The ultrafast sonochemical synthesis of mesoporous silica MCM-41. New Journal of Chemistry, 2010, 34, 2109.	2.8	26
39	Probing the Nature and Local Structure of Phosphonic Acid Groups Functionalized in Mesoporous Silica SBA-15. Journal of Physical Chemistry C, 2012, 116, 1658-1669.	3.1	25
40	Ordered cubic mesoporous silica KIT-5 functionalized with carboxylic acid groups for dye removal. RSC Advances, 2014, 4, 49061-49069.	3.6	25
41	Insight into the Superior Lithium Storage Properties of Ultrafine CoO Nanoparticles Confined in a 3 D Bimodal Ordered Mesoporous Carbon CMKâ€9 Anode. ChemSusChem, 2020, 13, 2952-2965.	6.8	25
42	Space confined synthesis of highly dispersed bimetallic CoCu nanoparticles as effective catalysts for ammonia borane dehydrogenation and 4-nitrophenol reduction. Applied Surface Science, 2021, 538, 148091.	6.1	25
43	Towards an understanding of the role of hyper-branched oligomers coated on cathodes, in the safety mechanism of lithium-ion batteries. RSC Advances, 2014, 4, 56147-56155.	3.6	24
44	Direct Solid-State NMR Observation of Tetrahedral Aluminum Fluorides in Zeolite HY Fluorinated by Ammonium Fluoride. Journal of Physical Chemistry C, 2007, 111, 4495-4498.	3.1	23
45	Highly Carboxylicâ€Acidâ€Functionalized Ethaneâ€Bridged Periodic Mesoporous Organosilicas: Synthesis, Characterization, and Adsorption Properties. Chemistry - an Asian Journal, 2012, 7, 2111-2117.	3.3	23
46	Ru Nanoparticles Embedded in Cubic Mesoporous Silica SBA-1 as Highly Efficient Catalysts for Hydrogen Generation from Ammonia Borane. Catalysts, 2020, 10, 267.	3.5	22
47	Ethaneâ€Bridged Periodic Mesoporous Organosilicas Functionalized with High Loadings of Carboxylic Acid Groups: Synthesis, Bifunctionalization, and Fabrication of Metal Nanoparticles. Chemistry - A European Journal, 2014, 20, 894-903.	3.3	21
48	Facile fabrication of titania-ordered cubic mesoporous carbon composite: Effect of Ni doping on photocatalytic hydrogen generation. International Journal of Hydrogen Energy, 2019, 44, 19255-19266.	7.1	21
49	Probing the formation process of aluminium hydroxide nanoparticles prepared by laser ablation with 27Al NMR spectroscopy. Journal of Materials Chemistry, 2000, 10, 2802-2804.	6.7	20
50	3D interpenetrating cubic mesoporous carbon supported nanosized SnO2 as an efficient anode for high performance lithium-ion batteries. Journal of Alloys and Compounds, 2019, 791, 892-904.	5.5	20
51	Design, synthesis and characterization of polysiloxane and polyetherdiamine based comb-shaped hybrid solid polymer electrolytes for applications in electrochemical devices. Materials Research Bulletin, 2019, 109, 72-81.	5.2	20
52	13C CPMAS NMR Spectroscopy as a Versatile and Quantitative Tool for Determination of Mercury Adsorption Capacity in Thiol-Functionalized Mesoporous Silica SBA-1. Analytical Chemistry, 2008, 80, 3016-3019.	6.5	19
53	High ion-conducting solid polymer electrolytes based on blending hybrids derived from monoamine and diamine polyethers for lithium solid-state batteries. RSC Advances, 2017, 7, 20373-20383.	3.6	18
54	Solid Polymer Electrolytes, 9. Macromolecular Chemistry and Physics, 2004, 205, 600-610.	2.2	17

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55	Palladium nanoparticles encapsulated in carboxylic acid functionalized periodic mesoporous organosilicas as efficient and reusable heterogeneous catalysts for hydrogen generation from ammonia borane. Materials Research Bulletin, 2020, 125, 110786.	5.2	17
56	Synthesis and characterization of cubic periodic mesoporous organosilicas with a high loading of disulfide groups. New Journal of Chemistry, 2011, 35, 489.	2.8	16
57	Synthesis of highly dispersed ultra-small cobalt nanoparticles within the cage-type mesopores of 3D cubic mesoporous silica via double agent reduction method for catalytic hydrogen generation. Applied Surface Science, 2019, 470, 764-772.	6.1	16
58	Cage like ordered carboxylic acid functionalized mesoporous silica with enlarged pores for enzyme adsorption. Journal of Materials Science, 2017, 52, 6322-6340.	3.7	14
59	Carboxylic acid Functionalized Cageâ€Type Mesoporous Silica FDUâ€12 as Support for Controlled Synthesis of Platinum Nanoparticles and Their Catalytic Applications. Chemistry - A European Journal, 2018, 24, 13540-13548.	3.3	14
60	Confinement of Cu nanoparticles in the nanocages of large pore SBA-16 functionalized with carboxylic acid: enhanced activity and improved durability for 4-nitrophenol reduction. Dalton Transactions, 2019, 48, 8227-8237.	3.3	14
61	Solid Polymer Electrolyte Based on Pluronic P123 Triblock Copolymer-Siloxane Organic-Inorganic Hybrid. Journal of the Chinese Chemical Society, 2005, 52, 693-699.	1.4	13
62	Synthesis, Multinuclear NMR Characterization and Dynamic Property of Organic–Inorganic Hybrid Electrolyte Membrane Based on Alkoxysilane and Poly(oxyalkylene) Diamine. Membranes, 2012, 2, 253-274.	3.0	13
63	Particle size effects of carbon sources on electrochemical properties of LiFePO4/C composites. Journal of Solid State Electrochemistry, 2012, 16, 1857-1862.	2.5	13
64	A new organic–inorganic hybrid electrolyte based on polyacrylonitrile, polyether diamine and alkoxysilanes for lithium ion batteries: synthesis, structural properties, and electrochemical characterization. RSC Advances, 2014, 4, 13293-13303.	3.6	13
65	Oxidative transformation of thiol groups to disulfide bonds in mesoporous silicas: a diagnostic reaction for probing distribution of organic functional groups. New Journal of Chemistry, 2009, 33, 2199.	2.8	11
66	Ordered mesoporous carbon with tubular framework supported SnO2 nanoparticles intertwined in MoS2 nanosheets as an anode for advanced lithium-ion batteries with outstanding performances. Electrochimica Acta, 2021, 380, 138195.	5.2	10
67	A comparative study on the effects of salt and filler on transport and structural properties of organic–inorganic hybrid electrolytes. Ionics, 2014, 20, 1561-1571.	2.4	9
68	Bifunctional Cageâ€Type Cubic Mesoporous Silica SBAâ€1 Nanoparticles for Selective Adsorption of Dyes. Chemistry - an Asian Journal, 2017, 12, 1314-1325.	3.3	9
69	Effect of Al2O3 nanowires on the electrochemical properties of di-ureasil-based organic–inorganic hybrid electrolytes. Ionics, 2015, 21, 2523-2534.	2.4	8
70	Magnetic impurity effects on self-discharge capacity, cycle performance, and rate capability of LiFePO4/C composites. Journal of Solid State Electrochemistry, 2017, 21, 1767-1775.	2.5	8
71	Confinement of Pt nanoparticles in cage-type mesoporous silica SBA-16 as efficient catalysts for toluene oxidation: the effect of carboxylic groups on the mesopore surface. Catalysis Science and Technology, 2019, 9, 6852-6862.	4.1	8
72	N-functionalized mesoporous carbon supported Pd nanoparticles as highly active nanocatalyst for Suzuki-Miyaura reaction, reduction of 4-nitrophenol and hydrodechlorination of chlorobenzene. Journal of Industrial and Engineering Chemistry, 2021, 104, 529-543.	5.8	8

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73	Highly conducting blend hybrid electrolytes based on amine ended block copolymers and organosilane with in-situ formed silica particles for lithium-ion batteries. Journal of Power Sources, 2018, 390, 1-12.	7.8	7
74	Effect of carboxylic acid of periodic mesoporous organosilicas on the fructose-to-5-hydroxymethylfurfural conversion in dimethylsulfoxide systems. APL Materials, 2014, 2, .	5.1	6
75	Platinum deposited on 2D and 3D mesoporous silica materials for the catalytic oxidation of volatile organic compounds: The oxidation of m-xylene and methanol. Journal of Catalysis, 2021, 402, 275-288.	6.2	5
76	Solid-State NMR Characterization on the Molecular-Level Homogeneity in Lower Critical Solution Temparature Mixtures of Poly(α-methyl styrene) and Poly(2,6-dimethyl-p-phenylene oxide). Polymer Journal, 2003, 35, 372-378.	2.7	3
77	Analysis of polycyclic aromatic hydrocarbons using porous material MCM-41 as a sorbent. Analytical Methods, 2013, 5, 6874.	2.7	3
78	Solid‣tate NMR Study on Relationships between Miscibility and Chain Mobility in Poly(4â€Methylstyrene)/Poly(Cyclohexyl Methacrylate) Blend. Journal of the Chinese Chemical Society, 2001, 48, 709-716.	1.4	2
79	A Facile and Rapid Sonochemical Route to Synthesize Highly Ordered Mesoporous Silicas MCMâ€48 and Alâ€MCMâ€48 with Ia3d Cubic Structure Using Gemini Surfactant. Journal of the Chinese Chemical Society, 2013, 60, 831-838.	1.4	1
80	THE TRANSITION FROM MESOSTRUCTURE TO MICROSTRUCTURE IN A DOUBLE-TEMPLATED ALUMINOSILICATE SYSTEM. , 2003, , .		0
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