

Hideshi Maki

List of Publications by Year in descending order

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papers

550
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713013

21
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68
all docs

68
docs citations

68
times ranked

502
citing authors

#	ARTICLE	IF	CITATIONS
1	Formation and catalytic characterization of various rare earth phosphates. Journal of Materials Chemistry, 2002, 12, 1754-1760.	6.7	146
2	Ionic Equilibria for Synthesis of TiO ₂ Thin Films by the Liquid-Phase Deposition. Journal of Physical Chemistry C, 2014, 118, 11964-11974.	1.5	43
3	MECHANOCHEMICAL EFFECTS OF SOME RARE-EARTH ULTRAPHOSPHATES AND REFORMING OF THEIR SURFACE FOR CATALYTIC PROPERTIES. Phosphorus Research Bulletin, 1999, 9, 69-74.	0.1	25
4	Quantitative NMR of quadrupolar nucleus as a novel analytical method: hydrolysis behaviour analysis of aluminum ion. Analyst, The, 2017, 142, 1790-1799.	1.7	25
5	Charge transfer resistance reduction by the interlayer distance expansion of Ni-Al layered double hydroxide for nickel-metal hydride battery anode. Electrochimica Acta, 2018, 270, 395-401.	2.6	21
6	SYNTHESIS AND SURFACE PROPERTIES OF COPPER AND MAGNESIUM γ -CYCLO-TRIPHOSPHATES CONTAINING RARE EARTH ELEMENTS. Phosphorus Research Bulletin, 2001, 12, 139-148.	0.1	20
7	Separation of halogenated benzenes enabled by investigation of halogen- π interactions with carbon materials. Chemical Science, 2020, 11, 409-418.	3.7	17
8	Anion-exchange properties of nickel-aluminum layered double hydroxide prepared by liquid phase deposition. Materials Chemistry and Physics, 2013, 141, 445-453.	2.0	16
9	Protonation Equilibria and Stepwise Hydrolysis Behavior of a Series of Thiomonophosphate Anions. Journal of Physical Chemistry B, 2011, 115, 3571-3577.	1.2	15
10	⁹ Be and ³¹ P NMR analyses on Be ²⁺ complexation with cyclo-tri- γ -imidotriphosphate anions in aqueous solution. Polyhedron, 2011, 30, 903-912.	1.0	13
11	Nickel-Aluminum Layered Double Hydroxide Coating on the Surface of Conductive Substrates by Liquid Phase Deposition. ACS Applied Materials & Interfaces, 2015, 7, 17188-17198.	4.0	13
12	COMPARISON OF THE COMPLEXATION BEHAVIOR OF CYCLO-IMIDO-TRIPHOSPHATE ANIONS WITH CYCLO-TRIPHOSPHATE ANIONS IN AN AQUEOUS SOLUTION. Phosphorus Research Bulletin, 1993, 3, 31-36.	0.1	12
13	Linear Charge Density Dependence of the Polyelectrolyte Phase Volume of Ionic Dextran Sulfate as a Strong Acidic Polyion. Macromolecules, 2011, 44, 5027-5035.	2.2	10
14	Intrinsic ³¹ P NMR Chemical Shifts and the Basicities of Phosphate Groups in a Short-Chain Imino Polyphosphate. Journal of Solution Chemistry, 2013, 42, 1063-1074.	0.6	9
15	Quantitative Analysis of Water Activity Related to Hydration Structure in Highly Concentrated Aqueous Electrolyte Solutions. Electrochemistry, 2019, 87, 139-141.	0.6	9
16	²⁷ Al NMR STUDY ON THE COMPLEXATION OF LONG-CHAIN POLYPHOSPHATE ANIONS. Phosphorus Research Bulletin, 1996, 6, 281-284.	0.1	8
17	ACIDIC PROPERTIES AND CATALYTIC ACTIVITIES OF VARIOUS γ -CYCLO-TRIPHOSPHATES. Phosphorus Research Bulletin, 1998, 8, 119-124.	0.1	8
18	PHOSPHORYLATION OF METHYLAMINE WITH INORGANIC MONOIMIDO-CYCLO-TRIPHOSPHATE. Phosphorus Research Bulletin, 2004, 17, 170-173.	0.1	8

#	ARTICLE	IF	CITATIONS
19	Solvent molecule mobilities in propylene carbonate-based electrolyte solutions coexisting with fumed oxide nanoparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 562, 270-279.	2.3	8
20	ON THE PROTONATION EQUILIBRIA OF CYCLOμ-IMIDO-POLYPHOSPHATE ANIONS (I). <i>Phosphorus Research Bulletin</i> , 1995, 5, 149-154.	0.1	7
21	MECHANOCHEMICAL EFFECTS ON THE REACTIVITY OF Ni ₃ (PO ₄) ₂ (NH ₄) ₂ HPO ₄ M ₂ CO ₃ (M: ALKALINE METAL) MIXTURE. <i>Phosphorus Research Bulletin</i> , 1998, 8, 101-106.		
22	Stabilities of the Divalent Metal Ion Complexes of a Short-Chain Polyphosphate Anion and Its Imino Derivative. <i>Journal of Solution Chemistry</i> , 2013, 42, 2104-2118.	0.6	7
23	Multinuclear NMR studies on the effect of electrostatic and hydrophobic interactions on bindings to counterions to weakly acidic and basic polyelectrolytes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 471, 1-10.	2.3	7
24	Estimation of solid-liquid interfacial potential enabled by quantitative analysis and relaxation observation of quadrupolar NMR. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 604, 125286.	2.3	7
25	ON THE PROTONATION EQUILIBRIA OF CYCLOμ-IMIDO-POLYPHOSPHATE ANIONS (II). <i>Phosphorus Research Bulletin</i> , 1995, 5, 155-160.	0.1	6
26	²⁷ Al NMR STUDY ON MULTIDENTATE COMPLEXATION BEHAVIOR OF μ-IMIDO TRIPHOSPHATE ANIONS. <i>Phosphorus Research Bulletin</i> , 1996, 6, 9-12.	0.1	6
27	⁹ Be and ³¹ P NMR analyses on the influence of imino groups on Be ²⁺ complex stabilities of a series of cycloμ-imido triphosphate anions. <i>Magnetic Resonance in Chemistry</i> , 2014, 52, 69-81.	1.1	6
28	Fabrication of ZnS/Porous Silicon Composite and Its Enhancement of Photoluminescence. <i>Electrochimica Acta</i> , 2016, 201, 86-95.	2.6	6
29	Corrosion Inhibition for Steel Surface Using a Polyacrylic Gel Sheet Containing Ni-Al Layered Double Hydroxide Prepared by Liquid-Phase Deposition. <i>Electrochemistry</i> , 2021, 89, 111-117.	0.6	5
30	Electrical Conductivity of Ceria-Based Oxides/Alkali Carbonate Eutectic Nanocomposites. <i>Journal of the Electrochemical Society</i> , 2021, 168, 046516.	1.3	5
31	Coating Current Collector Surface with Ni-Al Layered Double Hydroxide by Liquid Phase Deposition to Reduce Charge-Transfer Resistance. <i>Electrochemistry</i> , 2015, 83, 803-806.	0.6	4
32	On-site fabrication and charge-discharge property of TiO ₂ coated porous silicon electrode by the liquid phase deposition with anodic oxidation. <i>Journal of Fluorine Chemistry</i> , 2015, 174, 62-69.	0.9	4
33	Removal of Surface Scale from Titanium Metal by Etching with HF-HNO ₃ Mixed Acid. <i>Materials Transactions</i> , 2017, 58, 1280-1289.	0.4	4
34	Influence of Immersion of Polyethyleneimine Thin Film Modified with Gold Nanoparticles in [Ru(NH ₃) ₆]Cl ₃ ; Aqueous Solution on Redox Reaction on AuNPs. <i>Electrochemistry</i> , 2019, 87, 123-133.	0.6	4
35	Conductivity of LiClO ₄ /PC-DME Solution Impregnated in LiCoO ₂ Powder. <i>Electrochemistry</i> , 2019, 87, 294-296.	0.6	4
36	An experimental and first-principle investigation of the Ca-substitution effect on P3-type layered Na _x Co ₂ . <i>Chemical Communications</i> , 2020, 56, 8107-8110.	2.2	4

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37	SYNTHESES AND THERMAL BEHAVIORS OF SOME CATION-MIXED CYCLO-PHOSPHATES. Phosphorus Research Bulletin, 1996, 6, 269-272.	0.1	3
38	Synthesis, protonation equilibrium and peculiar thermal decomposition behavior of cyclo-tri- β -imidotetraphosphate. Dalton Transactions, 2014, 43, 11611-11623.	1.6	3
39	Transitions from simple electrolyte to polyelectrolyte in a series of polyphosphates. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 484, 153-163.	2.3	3
40	Relationship between Ionic Interaction and NMR Relaxation Behavior in LiClO ₄ -PC Solution Coexisting with Fumed Metal Oxide. ECS Transactions, 2017, 80, 1381-1389.	0.3	3
41	Analysis of hydrolysis reaction of aluminum polynuclear complex with Cl ⁻ and SO ₄ ²⁻ anions by quantitative multinuclear NMR and evaluation of coagulation behavior of model sludge water. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 630, 127623.	2.3	3
42	Stabilized Phase Transition Process of Layered Na _x CoO ₂ via Ca-Substitution. Journal of the Electrochemical Society, 2021, 168, 010509.	1.3	3
43	Dependence of Interlayer Distance on the Charge Transfer Reaction of Ni-Al Layered Double Hydroxides. ECS Transactions, 2017, 75, 11-20.	0.3	2
44	Quantitative NMR in Analytical Chemistry. Analytical Sciences, 2021, 37, 1485-1486.	0.8	2
45	Disproportionation Phenomenon at the Silica Interface of Propylene Carbonate-1,2-Dimethoxyethane Binary Solvent Containing Lithium Perchlorate. Journal of Physical Chemistry C, , .	1.5	2
46	THERMAL BEHAVIOR OF LEAD CYCLO-TRIPHOSPHATE. Phosphorus Research Bulletin, 1998, 8, 113-118.	0.1	1
47	COMPARISON OF THE COMPLEXATION BEHAVIORS OF TRIPHOSPHATE ANIONS WITH DIIMIDOTRIPHOSPHATE ANIONS. Phosphorus Research Bulletin, 2001, 12, 149-154.	0.1	1
48	Electrodeposition of cerium oxide on porous silicon via anodization and enhancement of photoluminescence. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	1
49	Properties of Concentrated Aqueous Electrolyte Solution in a Vicinal Region of Coexisting Solid Surface. ECS Transactions, 2017, 80, 1459-1470.	0.3	1
51	Thermophysical Properties of Binary Amide Anion-Based Ionic Liquids; TPAFSA-TFSA. Electrochemistry, 2018, 86, 92-98.	0.6	1
52	(Invited) Electrical Conductivity of Ceria-Based Oxide/Alkali Carbonate Eutectics Nanocomposites. ECS Transactions, 2020, 98, 63-71.	0.3	1
53	A ⁹ Be NMR STUDY ON THE COORDINATION STRUCTURES OF Be ²⁺ COMPLEXES WITH CYCLO-IMIDOTRIPHOSPHATE ANIONS (I). Phosphorus Research Bulletin, 2001, 12, 155-159.	0.1	0
54	A ⁹ Be NMR STUDY ON THE COORDINATION STRUCTURES OF Be ²⁺ COMPLEXES WITH CYCLO-IMIDOTRIPHOSPHATE ANIONS (II). Phosphorus Research Bulletin, 2001, 12, 161-166.	0.1	0

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55	Inconsistency in the Stability Constants of Inorganic Polyphosphate Anions Determined by Potentiometry and Spectroscopy. Phosphorus, Sulfur and Silicon and the Related Elements, 2002, 177, 1693-1696.	0.8	0
56	CONVENIENT SYNTHESSES AND PHYSICAL PROPERTIES OF VARIOUS CYCLO-DECAPHOSPHATES. Phosphorus Research Bulletin, 2005, 19, 194-197.	0.1	0
57	PREPARATION AND REACTIVITY OF CYCLO-HEXAPHOSPHATE COACERVATE. Phosphorus Research Bulletin, 2007, 21, 48-52.	0.1	0
58	¹⁵ N and ³¹ P NMR Insights into Lactam-Lactim Tautomerism Activity Using cyclo-1/4-Imidopolyphosphates. Journal of Physical Chemistry B, 2015, 119, 12289-12298.	1.2	0
59	Dependence of Double Layer Capacitance on Pore Diameter of Carbon Coated Porous Si. ECS Transactions, 2017, 80, 1399-1405.	0.3	0
60	Electric Conductivity of Li/Na Binary Molten Carbonate Coexisting with Nanoparticles of CeO ₂ :Sm ³⁺ . ECS Transactions, 2018, 86, 101-112.	0.3	0
61	Degradation Factors and Durability of Large Scale Ni-metal Hydride Batteries. Electrochemistry, 2018, 86, 349-354.	0.6	0
62	Dependence of Double Layer Capacitance on Pore Diameter of Carbon Coated Porous Si. ECS Meeting Abstracts, 2017, , .	0.0	0
63	Relationship between Ionic Interaction and NMR Relaxation Behavior in LiClO ₄ -PC Solution Coexisting with Fumed Metal Oxide. ECS Meeting Abstracts, 2017, , .	0.0	0
64	Properties of Concentrated Aqueous Electrolyte Solution in a Vicinal Region of Coexisting Solid Surface. ECS Meeting Abstracts, 2017, , .	0.0	0
65	Ionic Conduction of Non-Aqueous Lithium Electrolyte Solution through Surface Modified Anodized Alumina Membrane Prepared By LPD Process Using Aqueous-Organic Mixed Solvent. ECS Meeting Abstracts, 2017, , .	0.0	0
66	Electric Conductivity of Li/Na Binary Molten Carbonate Coexisting with Nanoparticles of CeO ₂ :Sm ³⁺ . ECS Meeting Abstracts, 2018, , .	0.0	0
67	Variation of Ionic Conductivity of LiClO ₄ Solution Coexisting with SiO ₂ Nanoparticles in Binary Solvents Induced By Disproportionation. ECS Meeting Abstracts, 2020, MA2020-02, 3520-3520.	0.0	0
68	(Invited) Electrical Conductivity of Ceria-Based Oxide/Alkali Carbonate Eutectics Nanocomposites. ECS Meeting Abstracts, 2020, MA2020-02, 2951-2951.	0.0	0