

Masakazu Nishida

List of Publications by Year in descending order

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108
papers

1,341
citations

394421

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477307

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all docs

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times ranked

1113
citing authors

#	ARTICLE	IF	CITATIONS
1	Detoxification of bisphenol A and nonylphenol by purified extracellular laccase from a fungus isolated from soil. <i>Journal of Bioscience and Bioengineering</i> , 2004, 98, 64-66.	2.2	64
2	Synthesis of hexanuclear molybdenum cluster alkyl complexes coordinated with trialkylphosphines: crystal structures of trans-[(Mo ₆ Cl ₈)Cl ₄ {P(n-C ₄ H ₉) ₃ } ₂] and all-trans-[(Mo ₆ Cl ₈)Cl ₂ (C ₂ H ₅) ₂ {P(n-C ₄ H ₉) ₃ } ₂]. <i>Inorganic Chemistry</i> , 1986, 25, 1111-1117.	4.0	56
3	An H ₃ PO ₄ -doped polybenzimidazole/Sn _{0.95} Al _{0.05} P ₂ O ₇ composite membrane for high-temperature proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2011, 196, 6042-6047.	7.8	52
4	Proton conduction in non-doped and acceptor-doped metal pyrophosphate (MP ₂ O ₇) composite ceramics at intermediate temperatures. <i>Journal of Materials Chemistry</i> , 2012, 22, 3973.	6.7	48
5	Synthesis and characterization of dense SnP ₂ O ₇ /SnO ₂ composite ceramics as intermediate-temperature proton conductors. <i>Journal of Materials Chemistry</i> , 2011, 21, 663-670.	6.7	41
6	Superhydrophobic coating from fluoroalkylsilane modified natural rubber encapsulated SiO ₂ composites for self-driven oil/water separation. <i>Applied Surface Science</i> , 2018, 462, 164-174.	6.1	41
7	Living metathesis polymerization of [o-(trifluoromethyl)phenyl]acetylene by molybdenum-based three-component catalysts. <i>Macromolecules</i> , 1992, 25, 1401-1404.	4.8	40
8	Synthesis of Polyfluoro Aromatic Ethers: A Facile Route Using Polyfluoroalkoxides Generated from Carbonyl and Trimethylsilyl Compounds. <i>Inorganic Chemistry</i> , 1995, 34, 6085-6092.	4.0	35
9	Multi-scale instrumental analyses for structural changes in steam-treated bamboo using a combination of several solid-state NMR methods. <i>Industrial Crops and Products</i> , 2017, 103, 89-98.	5.2	33
10	Accelerated Weathering-Induced Degradation of Poly(Lactic Acid) Fiber Studied by Near-Infrared (NIR) Hyperspectral Imaging. <i>Applied Spectroscopy</i> , 2012, 66, 470-474.	2.2	30
11	Hydroxide Ion Conducting Antimony(V)-Doped Tin Pyrophosphate Electrolyte for Intermediate-Temperature Alkaline Fuel Cells. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 10786-10790.	13.8	30
12	Synthesis of poly(phenylacetylene)s containing trifluoromethyl groups for gas permeable membrane. <i>Journal of Polymer Science Part A</i> , 1992, 30, 873-877.	2.3	27
13	Study of nanoscale structural changes in isolated bamboo constituents using multiscale instrumental analyses. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	2.6	27
14	The electrochemical fluorination of N-containing carboxylic acids (Part 4). Fluorination of methyl 3-dialkylamino-isobutyrate and methyl 3-dialkylamino-n-butyrate. <i>Journal of Fluorine Chemistry</i> , 1994, 66, 193-202.	1.7	24
15	Photochemical Trifluoromethylation of 1-Methylimidazoles and 1-Methylpyrroles Containing Methylthio Groups. <i>Bulletin of the Chemical Society of Japan</i> , 1991, 64, 2255-2259.	3.2	23
16	Parallel factor (PARAFAC) kernel analysis of temperature- and composition-dependent NMR spectra of poly(lactic acid) nanocomposites. <i>Analyst</i> , 2012, 137, 1913.	3.5	23
17	Synthesis and polymerization of ethynylthiophenes and ethynylfurans containing trifluoromethyl groups. <i>Journal of Fluorine Chemistry</i> , 1990, 46, 445-459.	1.7	21
18	Synthesis and photochemical reaction of 1,4-dialkyl-7-oxa-2,3,5,6-tetrakis(trifluoromethyl)bicyclohepta-2,5-diene. <i>Journal of Heterocyclic Chemistry</i> , 1992, 29, 113-116.	1.7	21

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19	Integrated analysis of solid-state NMR spectra and nuclear magnetic relaxation times for the phenol formaldehyde (PF) resin impregnation process into soft wood. <i>RSC Advances</i> , 2017, 7, 54532-54541.	3.6	21
20	Solid-State Nuclear Magnetic Resonance (NMR) and Nuclear Magnetic Relaxation Time Analyses of Molecular Mobility and Compatibility of Plasticized Polyhydroxyalkanoates (PHA) Copolymers. <i>Polymers</i> , 2018, 10, 506.	4.5	21
21	Low molecular weight aromatic compounds possessing a nonflammable characteristic in fluoroalkyl endcapped acrylic acid oligomer/silica nanocomposite matrices after calcination at 800 °C under atmospheric conditions. <i>Journal of Polymer Science Part A</i> , 2011, 49, 1070-1078.	2.3	20
22	Synthesis of 2,5-diethyl-3,4-bis(trifluoromethyl)furan and its derivatives. <i>Journal of Heterocyclic Chemistry</i> , 1991, 28, 225-229.	2.6	19
23	Synthesis of a persistent perfluoroalkyl radical by electrochemical fluorination. <i>Chemical Communications</i> , 1996, , 1579.	4.1	18
24	Improvement of oxygen permselectivity through polydimethylsiloxane and poly(1-trimethylsilylpropyne) films by the addition of a small amount of poly(trifluoromethyl) Tj ETQq0 0 0 rgBT /Owz dock 10 17 50 537 7	1.7	17
25	Photochemical trifluoromethylation of tyramine and L-tyrosine derivatives. <i>Journal of Fluorine Chemistry</i> , 1992, 59, 197-202.	1.7	17
26	Proton-Conducting Thin Film Grown on Yttria-Stabilized Zirconia Surface for Ammonia Gas Sensing Technologies. <i>Electrochemical and Solid-State Letters</i> , 2009, 12, J73.	2.2	17
27	Characterization of silica particles prepared via urease-catalyzed urea hydrolysis and activity of urease in sol-gel silica matrix. <i>Applied Surface Science</i> , 2012, 262, 69-75.	6.1	17
28	Multi-scale instrumental analyses of plasticized polyhydroxyalkanoates (PHA) blended with polycaprolactone (PCL) and the effects of crosslinkers and graft copolymers. <i>RSC Advances</i> , 2019, 9, 1551-1561.	3.6	17
29	Facile perfluoroalkylation of uracils and uridines at the C-5 position. <i>Journal of Fluorine Chemistry</i> , 1993, 63, 43-52.	1.7	15
30	Proton conduction in Al ₁₀ Sb ₇ O ₃₅ compounds at intermediate temperatures. <i>Journal of Materials Chemistry</i> , 2012, 22, 14907.	6.7	15
31	Near-infrared (NIR) imaging analysis of polylactic acid (PLA) nanocomposite by multiple-perturbation two-dimensional (2D) correlation spectroscopy. <i>Journal of Molecular Structure</i> , 2014, 1069, 171-175.	3.6	15
32	Instrumental analyses of nanostructures and interactions with water molecules of biomass constituents of Japanese cypress. <i>Cellulose</i> , 2017, 24, 5295-5312.	4.9	15
33	Stereoselective Decomposition of Pyrazolines Containing Trifluoromethyl Groups. <i>Bulletin of the Chemical Society of Japan</i> , 1992, 65, 1999-2000.	3.2	13
34	Living metathesis polymerization of (p-n-butyl-o,o,m,m-tetrafluorophenyl)acetylene by MoOCl ₄ -n-Bu ₄ Sn-EtOH (1:1:1). <i>Polymer Bulletin</i> , 1994, 32, 19-25.	3.3	13
35	Electrochemical fluorination of (N,N-dialkylamino)alcohols. <i>Journal of Fluorine Chemistry</i> , 1999, 97, 229-237.	1.7	13
36	Crystalline structure and mechanical property of poly(lactic acid) nanocomposite probed by near-infrared (NIR) hyperspectral imaging. <i>Vibrational Spectroscopy</i> , 2012, 60, 50-53.	2.2	13

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37	Tensile properties of polyhydroxyalkanoate/polycaprolactone blends studied by rheo-optical near-infrared (NIR) spectroscopy. <i>Journal of Molecular Structure</i> , 2016, 1124, 92-97.	3.6	13
38	Correlative analysis between morphology and mechanical properties of poly-3-hydroxybutyrate (PHB) blended with polycaprolactone (PCL) using solid-state NMR. <i>Polymer Testing</i> , 2020, 91, 106780.	4.8	13
39	A new synthetic method for perfluorocycloimines. <i>Journal of Fluorine Chemistry</i> , 1996, 76, 3-5.	1.7	12
40	Nucleating and Plasticization Effects in Drawn Poly(Lactic Acid) Fiber during Accelerated Weathering Degradation. <i>Polymers</i> , 2018, 10, 365.	4.5	12
41	Integrated analysis of modified Japanese cypress using solid-state NMR spectra and nuclear magnetic relaxation times. <i>Cellulose</i> , 2019, 26, 3625-3642.	4.9	12
42	Preparation and properties of polyacetylene membranes substituted with trifluoromethylated heterocyclic groups. <i>Polymer Bulletin</i> , 1992, 28, 293-299.	3.3	11
43	Variable temperature solid-state NMR spectral and relaxation analyses of the impregnation of polyethylene glycol (PEG) into coniferous wood. <i>RSC Advances</i> , 2019, 9, 15657-15667.	3.6	11
44	Synthesis and polymerization of some ethynyl trifluoromethyl naphthalenes. <i>Journal of Fluorine Chemistry</i> , 1988, 38, 139-152.	1.7	10
45	Polymerization of [2,5-bis(trifluoromethyl)phenyl]acetylene and polymer properties. <i>Polymer Bulletin</i> , 1990, 23, 505-511.	3.3	10
46	Gas and vapor permeability of perfluoroalkylated polymers. <i>Polymer Bulletin</i> , 1994, 32, 661-668.	3.3	10
47	Multiple Pentafluorophenylation of 2,2,3,3,5,6,6-Heptafluoro-3,6-dihydro-2H-1,4-oxazine with an Organosilicon Reagent: NMR and DFT Structural Analysis of Oligo(perfluoroaryl) Compounds. <i>Helvetica Chimica Acta</i> , 2006, 89, 2671-2685.	1.6	10
48	Spin-Probe ESR Study on the Entrapment of Organic Solutes by the Nanochannel of MCM-41 in Benzene. <i>Langmuir</i> , 2007, 23, 1215-1222.	3.5	10
49	Enzyme encapsulation in silica particles prepared using enzyme-assisted sol-gel reactions in ionic liquids. <i>Journal of the Ceramic Society of Japan</i> , 2011, 119, 140-143.	1.1	10
50	Solid state NMR analysis of poly(L-lactide) random copolymer with poly(ϵ -caprolactone) and its reactive extrusion process. <i>Journal of Applied Polymer Science</i> , 2012, 123, 1865-1873.	2.6	10
51	Thermal Behavior of Poly(lactic acid)-Nanocomposite Studied by Near-Infrared Imaging Based on Roundtrip Temperature Scan. <i>Applied Spectroscopy</i> , 2014, 68, 371-378.	2.2	10
52	Influence of delignification on plastic flow deformation of wood. <i>Cellulose</i> , 2022, 29, 4153-4165.	4.9	10
53	Synthesis and polymerization of 2,5-disubstituted phenylacetylenes containing trifluoromethyl groups. <i>Journal of Fluorine Chemistry</i> , 1989, 43, 35-51.	1.7	9
54	Intercalative polymerization of L-lactide with organically modified clay by a reactive extrusion method and instrumental analyses of the poly(lactic acid)/clay nanocomposites. <i>Journal of Applied Polymer Science</i> , 2012, 125, E681.	2.6	9

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55	Instrumental analyses of nanostructures and interactions with bound water of superheated steam treated plant materials. <i>Industrial Crops and Products</i> , 2018, 114, 1-13.	5.2	9
56	Synthesis of 1-thrifluoromethyl- $\hat{1}^2$ -carboline derivatives. <i>Journal of Fluorine Chemistry</i> , 1989, 43, 189-205.	1.7	8
57	Synthesis of (E)- and (Z)-2,3-Bis(trifluoromethyl)allyl Alcohols by $\hat{1}^3$ -Ray Irradiation of Hexafluoro-2-butyne with Alcohols and Some Reactions. <i>Bulletin of the Chemical Society of Japan</i> , 1991, 64, 3494-3496.	3.2	8
58	Polyfluoroalkylation and polyfluoroalkoxylation of perfluoro-(5,6-dihydro-2H-1,4-oxazine) in the presence of fluoride anion. <i>Journal of Fluorine Chemistry</i> , 1998, 91, 1-3.	1.7	8
59	Pyrolysis of perfluoro(dimethylaminoacetic) acid alkali salts. <i>Journal of Fluorine Chemistry</i> , 1999, 95, 161-165.	1.7	8
60	Correlative analysis between solid-state NMR and morphology for blends of poly(lactic acid) and poly(butylene adipate-co-butylene terephthalate). <i>Polymer</i> , 2020, 200, 122591.	3.8	8
61	Synthesis and polymerization of p-pentamethyldisiloxanyl- $\hat{1}^{\pm}$, $\hat{1}^2$, $\hat{1}^2$ -trifluorostyrene and the oxygen permeability of the polymer. <i>Journal of Fluorine Chemistry</i> , 1992, 59, 285-288.	1.7	7
62	Direct heptafluoropropylation of purines with bis(heptafluorobutryl) peroxide. <i>Journal of Fluorine Chemistry</i> , 1993, 65, 175-179.	1.7	7
63	Reactions of perfluorocycloimines with (polyfluoroalkoxy)trimethylsilanes and polyfluoroalkyltrifluoromethanesulfonates. <i>Journal of Fluorine Chemistry</i> , 2001, 110, 63-73.	1.7	7
64	Synthesis and Conformational Studies of Methylated, Highly Branched Fluoroolefins: Gear-Meshed Conformational Isomers. <i>European Journal of Organic Chemistry</i> , 2003, 2003, 3648-3658.	2.4	7
65	Formation of perfluorinated polyphenylenes by multiple pentafluorophenylation using C ₆ F ₅ Si(CH ₃) ₃ . <i>Journal of Fluorine Chemistry</i> , 2010, 131, 1314-1321.	1.7	7
66	Preparation of perfluoro-1,3-propanedisulfonic acid/silica nanocomposites-encapsulated low molecular weight aromatic compounds possessing a nonflammable characteristic. <i>Journal of Colloid and Interface Science</i> , 2011, 356, 8-15.	9.4	7
67	Coloring" decoloring behavior of fluoroalkyl end"capped 2"acrylamido"2"methylpropanesulfonic acid oligomer/acetone composite in methanol. <i>Journal of Polymer Science Part A</i> , 2013, 51, 2555-2564.	2.3	7
68	Reactions of Alicyclic Perfluoroimines with Trimethyl (pentafluorophenyl) silane.. <i>Nippon Kagaku Kaishi / Chemical Society of Japan - Chemistry and Industrial Chemistry Journal</i> , 2000, , 817-820.	0.1	7
69	Synthesis of imidazo[4,5"i>c</i>]pyridines with a trifluoromethyl group at C"4 and/or C"6. <i>Journal of Heterocyclic Chemistry</i> , 1994, 31, 453-455.	2.6	6
70	Reactions of highly branched fluoroolefins with methyllithium and methylmagnesium bromide: formations of unexpected polyfluorocyclobutene and polyfluoropentadiene compounds. <i>Journal of Fluorine Chemistry</i> , 2003, 120, 93-96.	1.7	6
71	Partially Proton-Exchanged WP[sub 2]O[sub 7] with High Conductivity at Intermediate Temperatures. <i>Electrochemical and Solid-State Letters</i> , 2010, 13, B123.	2.2	6
72	Immobilization of cholesterol esterase in mesoporous silica materials and its hydrolytic activity toward diethyl phthalate. <i>Materials Science and Engineering C</i> , 2012, 32, 718-724.	7.3	6

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73	Rapid Benzoylation of Wood Powder without Heating. <i>Polymers</i> , 2021, 13, 1118.	4.5	6
74	Oligomerization of nitrogen-containing perfluoroacyl fluorides with hexafluoropropene oxide. <i>Journal of Fluorine Chemistry</i> , 1994, 66, 179-185.	1.7	5
75	Solid-state NMR study of dopant effects on the chemical properties of Mg, In, and Al-doped SnP ₂ O ₇ . <i>Magnetic Resonance in Chemistry</i> , 2014, 52, 163-171.	1.9	5
76	Preparation of magnesium carbonate nanoparticles encapsulated by nanocomposite material derived from fluoroalkyl end-capped vinyltrimethoxysilane oligomer – Application to the surface modification of glass and poly(methyl methacrylate). <i>Journal of Fluorine Chemistry</i> , 2015, 177, 70-79.	1.7	5
77	Synthesis of 1-(pentafluorophenyl)-1 ² -carboline. <i>Journal of Fluorine Chemistry</i> , 1990, 46, 479-489.	1.7	4
78	Preparation and Properties of Poly(phenylacetylene) Membranes Containing Perfluoroalkyl Groups. <i>Polymer Journal</i> , 1993, 25, 633-637.	2.7	4
79	Biphenylene units possessing flammable and nonflammable characteristics in fluoroalkyl end-capped vinyltrimethoxysilane oligomeric silica gel matrices after calcination at 800°C. <i>Colloid and Polymer Science</i> , 2012, 290, 11-21.	2.1	4
80	Proton-Conductor-Supported Ultra-Low Loading Pt-Rh Three-Way Catalysts. <i>Journal of Physical Chemistry C</i> , 2013, 117, 1827-1832.	3.1	4
81	Reactions of Highly Branched Perfluoroolefins with (Pentafluorophenyl)trimethylsilane: Characterization of the Unique Structural Properties of Perfluorinated Super-Congested Systems. <i>Asian Journal of Organic Chemistry</i> , 2016, 5, 927-937.	2.7	4
82	Controlled surface modification of poly(methyl methacrylate) film by fluoroalkyl end-capped vinyltrimethoxysilane oligomeric silica/hexagonal boron nitride nanocomposites. <i>Journal of Coatings Technology Research</i> , 2020, 17, 643-655.	2.5	4
83	Effect of chain extender on morphology and tensile properties of poly(L-lactic acid)/poly(butylene) Tj ETQq1 1 0.784314 rgBT 4/Overload	1.9	4
84	Thermal behavior of drawn poly(lactic acid)-nanocomposite fiber probed by near-infrared hyperspectral imaging based on roundtrip temperature scan. <i>Analytical Methods</i> , 2012, 4, 2259.	2.7	3
85	Low molecular weight aromatic compounds possessing nonflammable and flammable characteristics in calcium fluoride nanocomposite matrices after calcination at 800°C. <i>Colloid and Polymer Science</i> , 2013, 291, 945-953.	2.1	3
86	Preparation and thermal stability of fluoroalkyl end-capped vinyltrimethoxysilane oligomeric silica/boric acid nanocomposites – encapsulated a variety of low molecular weight organic compounds. <i>Journal of Polymer Science Part A</i> , 2016, 54, 3835-3845.	2.3	3
87	Effects of Additives on Tensile Properties of Polyhydroxyalkanoate/Polycaprolactone Polymer Blends. <i>Key Engineering Materials</i> , 0, 715, 39-42.	0.4	3
88	Solid-state NMR study on changes of phosphate and proton species in metal pyrophosphate composite (MP ₂ O ₇ – MO ₂) ceramics. <i>Magnetic Resonance in Chemistry</i> , 2017, 55, 570-578.	1.9	3
89	Preparation of morphology-controlled fluoroalkyl end-capped vinyltrimethoxysilane oligomeric silica/magnesium oxide nanocomposite particles: development of magnesium oxide nanocomposite particles possessing a water-resistance ability. <i>Journal of Sol-Gel Science and Technology</i> , 2019, 89, 135-147.	2.4	3
90	Effect of the Propionylation Method on the Deformability under Thermal Pressure of Block-Shaped Wood. <i>Molecules</i> , 2021, 26, 3539.	3.8	3

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91	Reactions of Alicyclic Perfluoroimines with Trimethyl (trifluoromethyl)silane.. Nippon Kagaku Kaishi / Chemical Society of Japan - Chemistry and Industrial Chemistry Journal, 2001, , 281-288.	0.1	3
92	New perfluoropolymers bearing dialkylamino groups as side chains. Polymer, 1995, 36, 2807-2812.	3.8	2
93	Measurement of speed of sound in poly(lactic acid)-clay composite. Ultrasonics, 2014, 54, 1010-1014.	3.9	2
94	Preparation of fluoroalkyl end-capped vinyltrimethoxysilane oligomeric silica/boric acid/poly(N-methyl benzamide)-b-poly(propylene oxide) block copolymer nanocomposites " no weight loss behavior of the block copolymer in the nanocomposites even after calcination at 800°C. Journal of Sol-Gel Science and Technology, 2018, 85, 318-329.	2.4	2
95	Reactions of Bifunctional Perfluoroarylsilanes with Activated C-F Bonds in Perfluorinated Arenes. ACS Omega, 2019, 4, 20807-20818.	3.5	2
96	Oligomerization reactions of perfluorovinylamines catalyzed by fluoride ions. Journal of Fluorine Chemistry, 1997, 81, 163-168.	1.7	1
97	Effect of various organic solvents on rheological properties of wood. AIP Conference Proceedings, 2008, , .	0.4	1
98	Novel polystyrene bearing highly branched hexafluoropropene trimer pendants. Polymer Bulletin, 2011, 67, 805-814.	3.3	1
99	Preparation and properties of fluorinated carboxylic acid/silica nanocomposite-encapsulated low molecular weight compounds. Colloid and Polymer Science, 2014, 292, 369-379.	2.1	1
100	Preparation and thermal stability of initiator fragments end-capped oligomers/silica nanocomposites. Colloid and Polymer Science, 2016, 294, 1173-1186.	2.1	1
101	Amorphous low molecular weight aromatic compounds possessing no weight loss behavior in fluoroalkyl end-capped vinyltrimethoxysilane oligomeric silica/hexagonal boron nitride nanocomposites even after calcination at 800°C. Journal of Coatings Technology Research, 2020, 17, 1053-1064.	2.5	1
102	Surface Hydrophobization of Block-Shaped Wood with Rapid Benzylation. Forests, 2021, 12, 1028.	2.1	1
103	Reactions of Highly Branched Fluoroolefins with Methyllithium and Methylmagnesium Bromide: Formations of Unexpected Polyfluorocyclobutene and Polyfluoropentadiene Compounds.. ChemInform, 2003, 34, no.	0.0	0
104	Preparation of ionic liquid/silica nanocomposites possessing no weight loss characteristic after calcination at 800°C. Colloid and Polymer Science, 2012, 290, 987-995.	2.1	0
105	Homoaldol condensation of aromatic ketones in fluoroalkyl end-capped 2-acrylamido-2-methylpropanesulfonic acid oligomeric gel network cores. Polymers for Advanced Technologies, 2014, 25, 258-264.	3.2	0
106	Effects of the shapes and addition amounts of crosslinking reagents on the properties of poly(3-hydroxybutyrate)/poly(caprolactone) blends. Journal of Applied Polymer Science, 2021, 138, 51210.	2.6	0
107	PARAFAC Analysis for Temperature-Dependent NMR Spectra of Poly(Lactic Acid) Nanocomposite. , 0, , .		0
108	ALKYL DERIVATIVES OF OCTAHEDRAL MOLYBDENUM AND TUNGSTEN CLUSTER COMPLEXES. , 1988, , 92-95.		0