

# Atsushi Ishihara

## List of Publications by Year in Descending Order

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

198  
papers

4,555  
citations

31  
h-index

61  
g-index

202  
ext. papers

4,832  
ext. citations

4.2  
avg. IF

5.39  
L-index

#	Paper	IF	Citations
198	Effect of Type of Matrix on Formation of Aromatics by Cracking and Dehydrocyclization of n-Pentane Using ZnZSM-5 Metal Oxide Hierarchical Composite Catalysts. <i>Journal of the Japan Petroleum Institute</i> , <b>2022</b> , 65, 27-35	1	1
197	Catalytic cracking of low-density polyethylene over zeolite-containing hierarchical two-layered catalyst with different mesopore size using Curie point pyrolyzer. <i>Fuel Processing Technology</i> , <b>2022</b> , 227, 107106	7.2	1
196	Thermal Behavior of Crystalline Minerals in Argonne Premium Coals under Air and Argon Atmospheres: Comparison between Bituminous, Sub-bituminous, and Brown Coals. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , <b>2022</b> , 101, 36-42	0.5	0
195	Aromatics formation by dehydrocyclization-cracking of methyl oleate using ZnZSM-5-alumina composite-supported NiMo sulfide catalysts. <i>Fuel</i> , <b>2021</b> , 289, 119885	7.1	3
194	Effect of matrix on aromatics production by cracking and dehydrocyclization of n-pentane using Ga ion-exchanged ZSM-5-alumina composite catalysts. <i>Fuel Processing Technology</i> , <b>2021</b> , 213, 106679	7.2	15
193	Analysis of Thermal Behavior of Crystalline Minerals in Bituminous Coal Samples under Air and Argon Atmospheres. <i>ACS Omega</i> , <b>2021</b> , 6, 1197-1204	3.9	1
192	Effects of the addition of CeO on the steam reforming of ethanol using novel carbon-AlO and carbon-ZrO composite-supported Co catalysts.. <i>RSC Advances</i> , <b>2021</b> , 11, 8530-8539	3.7	0
191	Dehydrocyclization-cracking of methyl oleate by Pt catalysts supported on a ZnZSM-5-AlO hierarchical composite.. <i>RSC Advances</i> , <b>2021</b> , 11, 19864-19873	3.7	3
190	Effects of Zn Addition into ZSM-5 Zeolite on Dehydrocyclization-Cracking of Soybean Oil Using Hierarchical Zeolite-AlO Composite-Supported Pt/NiMo Sulfided Catalysts. <i>ACS Omega</i> , <b>2021</b> , 6, 5509-5519	3.9	3
189	Preparation of novel zeolite-containing hierarchical two-layered catalysts with large mesopores by gel skeletal reinforcement and their reactivities in catalytic cracking of n-dodecane. <i>Journal of Porous Materials</i> , <b>2021</b> , 28, 1935	2.4	1
188	Aromatics formation by cracking and dehydrocyclization of n-hexane using Zn ion-exchanged ZSM-5/Al <sub>2</sub> O <sub>3</sub> hierarchical composite catalysts. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , <b>2021</b> , 134, 401	1.6	2
187	Development of Ag and Ag alloys-precipitated Ag <sub>2</sub> O-TeO <sub>2</sub> glass and Ag <sub>2</sub> O-TeO <sub>2</sub> glass/stainless steel reference electrodes for pH sensors. <i>Sensors and Actuators B: Chemical</i> , <b>2021</b> , 348, 130540	8.5	1
186	Preparation of Zeolite mixed catalysts using alumina and titania matrices modified by silication of gel skeletal reinforcement and their reactivity for catalytic cracking of n-dodecane. <i>Applied Catalysis A: General</i> , <b>2021</b> , 610, 117959	5.1	2
185	Estimation of Catalytic Cracking of Vacuum Gas Oil by a Y Zeolite-Containing Two-Layered Catalyst and a Novel Three-Layered Hierarchical Catalyst Using a Curie Point Pyrolyzer Method. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 7448-7454	4.1	5
184	Catalytic cracking of C <sub>12</sub> -C <sub>32</sub> hydrocarbons by hierarchical H and Y-zeolite-containing mesoporous silica and silica-alumina using Curie point pyrolyzer. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2020</b> , 150, 104876	6	4
183	Effects of a Matrix on Formation of Aromatic Compounds by Dehydrocyclization of n-Pentane Using ZnZSM-5-AlO Composite Catalysts. <i>ACS Omega</i> , <b>2020</b> , 5, 11160-11166	3.9	14
182	Steam reforming of ethanol using novel carbon-oxide composite-supported Ni, Co and Fe catalysts. <i>Fuel Processing Technology</i> , <b>2020</b> , 197, 106203	7.2	12

181	Preparation and reactivity of hierarchical catalysts in catalytic cracking. <i>Fuel Processing Technology</i> , <b>2019</b> , 194, 106116	7.2	35
180	Preparation of hierarchical catalysts with the simultaneous generation of microporous zeolite using a template and large mesoporous silica by gel skeletal reinforcement and their reactivity in the catalytic cracking of n-dodecane. <i>Catalysis Science and Technology</i> , <b>2019</b> , 9, 3614-3618	5.5	4
179	Effects of types of zeolite and oxide and preparation methods on dehydrocyclization-cracking of soybean oil using hierarchical zeolite-oxide composite-supported Pt/NiMo sulfided catalysts. <i>Fuel Processing Technology</i> , <b>2019</b> , 194, 106109	7.2	14
178	Effect of heat-treatment on the pH sensitivity of stainless-steel electrodes as pH sensors. <i>Heliyon</i> , <b>2019</b> , 5, e01239	3.6	1
177	Catalytic cracking of soybean oil by ZSM-5 zeolite-containing silica-aluminas with three layered micro-meso-meso-structure. <i>Catalysis Today</i> , <b>2018</b> , 303, 123-129	5.3	18
176	Hydrogenation of Carbon Monoxide in the Presence of Solvent Using Novel Carbon Oxide Composite Supported Cobalt and Iron Catalysts. <i>Journal of the Japan Petroleum Institute</i> , <b>2018</b> , 61, 51-58 <sup>1</sup>		2
175	Effect of glass former (B <sub>2</sub> O <sub>3</sub> , SiO <sub>2</sub> , GeO <sub>2</sub> and P <sub>2</sub> O <sub>5</sub> ) addition to Fe <sub>2</sub> O <sub>3</sub> -Bi <sub>2</sub> O <sub>3</sub> glass on pH responsivity. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 257, 807-814	8.5	5
174	Effects of Pt-loading on Formation and Visible Light-Induced Photocatalytic Activity of Bismuth Titanate. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , <b>2018</b> , 97, 70-76	0.5	
173	Preparation of Silica, Alumina, Titania, and Zirconia with Different Pore Sizes Using Sol-Gel Method and Their Properties as Matrices in Catalytic Cracking. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 14394-14405	3.9	8
172	Dehydrocyclization-cracking reaction of soybean oil using zeolite-metal oxide composite-supported PtNiMo sulfided catalysts. <i>Fuel Processing Technology</i> , <b>2017</b> , 161, 17-22	7.2	13
171	Preparation and characterization of zeolite-containing silica-aluminas with three layered micro-meso-meso-structure and their reactivity for catalytic cracking of soybean oil using Curie point pyrolyzer. <i>Fuel Processing Technology</i> , <b>2017</b> , 161, 8-16	7.2	17
170	pH Sensors Using 3d-Block Metal Oxide-Coated Stainless Steel Electrodes. <i>Electrochimica Acta</i> , <b>2016</b> , 220, 699-704	6.7	8
169	Preparation of SiO <sub>2</sub> and SiO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> catalysts by gel skeletal reinforcement using hexamethyldisiloxane (HMDS) and acetic anhydride and aluminum tri-sec-butoxide (ASB) systems and elucidation of their catalytic cracking properties as matrices. <i>Microporous and Mesoporous Materials</i> , <b>2016</b> , 233, 163-170	5.3	12
168	Catalytic cracking reaction of vacuum gas oil and atmospheric residue by zeolite-containing microporous and mesoporous composites using Curie point pyrolyzer. <i>Fuel Processing Technology</i> , <b>2016</b> , 142, 337-344	7.2	18
167	Catalytic Cracking of Soybean Oil Using Zeolite-containing Microporous and Mesoporous Mixed Catalysts with Curie Point Pyrolyzer. <i>Journal of the Japan Petroleum Institute</i> , <b>2016</b> , 59, 184-196	1	8
166	Preparation and photocatalytic activity of porous Bi <sub>2</sub> O <sub>3</sub> polymorphisms. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 7388-7392	6.7	31
165	Catalytic cracking of soybean oil by hierarchical zeolite containing mesoporous silica-aluminas using a Curie point pyrolyzer. <i>Journal of Molecular Catalysis A</i> , <b>2015</b> , 396, 310-318		31
164	Hydrothermal gasification of phenol water on novel carbon-supported Ni catalysts prepared by the sol-gel method using tartaric acid and aluminum tri-sec-butoxide. <i>Fuel Processing Technology</i> , <b>2015</b> , 136, 34-40	7.2	8

163	Preparation and properties of Sol–Gel derived CuFeO <sub>2</sub> thin films by dip-coating technique. <i>Journal of the Ceramic Society of Japan</i> , <b>2015</b> , 123, 448-451	1	3
162	Drastic Dependence of the pH Sensitivity of Fe <sub>2</sub> O <sub>3</sub> -Bi <sub>2</sub> O <sub>3</sub> -B <sub>2</sub> O <sub>3</sub> Hydrophobic Glasses with Composition. <i>Materials</i> , <b>2015</b> , 8, 8624-8629	3-5	4
161	Catalytic Cracking of VGO by Zeolite/Alumina Mixed Catalysts Using Curie Point Pyrolyzer. <i>Journal of the Japan Petroleum Institute</i> , <b>2015</b> , 58, 169-175	1	8
160	Preparation of Alumina-supported Cobalt–Molybdenum Catalysts by Sol-gel Method and Hydrodesulfurization Activities. <i>Journal of the Japan Petroleum Institute</i> , <b>2015</b> , 58, 103-109	1	
159	Effects of Types of Metal Oxides on Hydrothermal Gasification of Phenol over Novel Metal Oxide/Carbon Composite Supported Ni Catalysts Prepared by Sol-gel Method. <i>Journal of the Japan Petroleum Institute</i> , <b>2015</b> , 58, 302-311	1	4
158	Preparation of amorphous silica-alumina using polyethylene glycol and its role for matrix in catalytic cracking of n-dodecane. <i>Applied Catalysis A: General</i> , <b>2014</b> , 478, 58-65	5-1	11
157	Hydrocracking of soybean oil using zeolite/alumina composite supported NiMo catalysts. <i>Fuel</i> , <b>2014</b> , 134, 611-617	7-1	48
156	Catalytic Cracking of VGO by Hierarchical Y Zeolite-containing Mesoporous Silica/Alumina Catalysts Using Curie Point Pyrolyzer. <i>Journal of the Japan Petroleum Institute</i> , <b>2014</b> , 57, 34-46	1	12
155	Fe <sub>2</sub> O <sub>3</sub> -Bi <sub>2</sub> O <sub>3</sub> -B <sub>2</sub> O <sub>3</sub> glasses as lithium-free nonsilicate pH responsive glasses [Compatibility between pH responsivity and hydrophobicity. <i>Materials Research Bulletin</i> , <b>2014</b> , 50, 385-391	5-1	5
154	Hydrocracking of 1-methylnaphthalene/decahydronaphthalene mixture catalyzed by zeolite-alumina composite supported NiMo catalysts. <i>Fuel Processing Technology</i> , <b>2013</b> , 116, 222-227	7-2	41
153	Hydrothermal Gasification of Phenol Water on Novel Carbon-Supported Ni Catalysts Prepared by the Sol-Gel Method Using PEG. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , <b>2013</b> , 92, 687-694	0-5	5
152	Titanophosphate glasses as lithium-free nonsilicate pH-responsive glasses [Compatibility between pH responsivity and self-cleaning properties. <i>Materials Research Bulletin</i> , <b>2012</b> , 47, 1942-1949	5-1	7
151	Effect of Sb <sub>2</sub> O <sub>3</sub> addition on photoluminescence properties of zinc phosphate and borate glasses. <i>Journal of the Ceramic Society of Japan</i> , <b>2012</b> , 120, 436-437	1	2
150	Catalytic cracking of VGO by hierarchical ZSM-5 zeolite containing mesoporous silica/aluminas using a Curie point pyrolyzer. <i>Catalysis Communications</i> , <b>2012</b> , 28, 163-167	3-2	34
149	Preparation of hierarchical $\beta$ and Y zeolite-containing mesoporous silica/aluminas and their properties for catalytic cracking of n-dodecane. <i>Journal of Catalysis</i> , <b>2012</b> , 295, 81-90	7-3	64
148	Pore Size Control of a Novel Amorphous Silica-Alumina with Large Mesopore by the Gel Skeletal Reinforcement and Its Catalytic Cracking Properties. <i>ACS Symposium Series</i> , <b>2012</b> , 51-60	0-4	4
147	Preparation of Amorphous Silica-Alumina Using the Sol-Gel Method and its Reactivity for a Matrix in Catalytic Cracking. <i>Catalysis Surveys From Asia</i> , <b>2012</b> , 16, 36-47	2-8	10
146	Large Mesopore Generation in an Amorphous Silica-Alumina by Controlling the Pore Size with the Gel Skeletal Reinforcement and Its Application to Catalytic Cracking. <i>Catalysts</i> , <b>2012</b> , 2, 368-385	4	21

145	Second harmonic generation of thermally poled ZnCl <sub>2</sub> or ZnBr <sub>2</sub> B <sub>2</sub> O <sub>3</sub> TeO <sub>2</sub> glasses and its mechanism. <i>Journal of Non-Crystalline Solids</i> , <b>2011</b> , 357, 1013-1015	3.9	2
144	Catalytic Properties of Amorphous Silica-alumina Prepared Using Dicarboxylic and Tricarboxylic Acids as Matrix in Catalytic Cracking of n-Dodecane. <i>Journal of the Japan Petroleum Institute</i> , <b>2011</b> , 54, 189-200	1	15
143	ZnO-Bi <sub>2</sub> O <sub>3</sub> -B <sub>2</sub> O <sub>3</sub> Glasses as Molding Glasses with High Refractive Indices and Low Coloration Codes. <i>Journal of the American Ceramic Society</i> , <b>2011</b> , 94, 2061-2066	3.8	32
142	Novel Method for Generating Large Mesopores in an Amorphous Silica-Alumina by Controlling the Pore Size with the Gel Skeletal Reinforcement and Its Catalytic Cracking Properties as a Catalyst Matrix. <i>Chemistry Letters</i> , <b>2011</b> , 40, 558-560	1.7	19
141	Catalytic properties of amorphous silica-alumina prepared using malic acid as a matrix in catalytic cracking of n-dodecane. <i>Applied Catalysis A: General</i> , <b>2010</b> , 388, 68-76	5.1	40
140	Synthesis of Di-t-butyl Polysulfide from Isobutene, Hydrogen Sulfide, and Sulfur (Part 2) Catalytic Behavior of MFI Zeolites. <i>Journal of the Japan Petroleum Institute</i> , <b>2009</b> , 52, 128-138	1	
139	Ti <sup>3+</sup> -Free Titanoborophosphate Glasses as Molding Glasses with High Refractive Indices. <i>Journal of the American Ceramic Society</i> , <b>2009</b> , 92, 1250-1255	3.8	5
138	Luminescent properties of amorphous Al <sub>2</sub> O <sub>3</sub> prepared by sol-gel method. <i>Journal of the Ceramic Society of Japan</i> , <b>2008</b> , 116, 835-836	1	12
137	Stress-induced second harmonic generation in silica glass. <i>Journal of the Ceramic Society of Japan</i> , <b>2008</b> , 116, 1232-1233	1	
136	Degradation of Carbazole by Novosphingobium sp. Strain NIY3. <i>Journal of the Japan Petroleum Institute</i> , <b>2008</b> , 51, 174-179	1	7
135	Sulfidation State and Sulfur Behavior on Mo-based HDS Catalysts Supported on TiO <sub>2</sub> Using 35S Tracer Methods. <i>Journal of the Japan Petroleum Institute</i> , <b>2008</b> , 51, 73-82	1	10
134	Comparison by 35S Radiotracer Methods of Hydrodesulfurization Behavior for Molybdenum, Cobalt-Molybdenum and Nickel-Molybdenum Catalysts Supported on $\gamma$ -Alumina and High Specific Surface Area Titania. <i>Journal of the Japan Petroleum Institute</i> , <b>2007</b> , 50, 154-161	1	6
133	Hydrodesulfurization of sulfur-containing polyaromatic compounds in light gas oil using noble metal catalysts. <i>Applied Catalysis A: General</i> , <b>2005</b> , 289, 163-173	5.1	56
132	Addition effect of ruthenium on nickel steam reforming catalysts. <i>Fuel</i> , <b>2005</b> , 84, 1462-1462	7.1	45
131	Description of coordinatively unsaturated sites regeneration over MoS <sub>2</sub> -based HDS catalysts using 35S experiments combined with computer simulations. <i>Applied Catalysis A: General</i> , <b>2005</b> , 289, 51-58	5.1	25
130	Investigation of sulfur behavior on CoMo-based HDS catalysts supported on high surface area TiO <sub>2</sub> by 35S radioisotope tracer method. <i>Applied Catalysis A: General</i> , <b>2005</b> , 292, 50-60	5.1	20
129	Interpretation of the difference of optimal Mo density in MoS <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> and MoS <sub>2</sub> -TiO <sub>2</sub> HDS catalysts. <i>Research on Chemical Intermediates</i> , <b>2005</b> , 31, 819-832	2.8	6
128	Decolorization of Coal Humic Acid by Extracellular Enzymes Produced by White-Rot Fungi. <i>Coal Preparation</i> , <b>2005</b> , 25, 211-220		13

127	Oxidative desulfurization and denitrogenation of a light gas oil using an oxidation/adsorption continuous flow process. <i>Applied Catalysis A: General</i> , <b>2005</b> , 279, 279-287	5.1	245
126	Development of Hydrodesulfurization Catalysts Using Molybdenum Complex with Molybdenum-sulfur Bonds (Part 1) Effect of Activation Method on Catalytic Activity. <i>Journal of the Japan Petroleum Institute</i> , <b>2005</b> , 48, 137-144	1	1
125	Investigation of Sulfur Behavior on Mo-based Hydrodesulfurization Catalysts Supported on High Surface Area TiO <sub>2</sub> by 35S Radioisotope Tracer Method. <i>Journal of the Japan Petroleum Institute</i> , <b>2005</b> , 48, 37-44	1	12
124	Hydrodesulfurization and hydrogenation reactions on noble metal catalysts Part II. Effect of partial pressure of hydrogen sulfide on sulfur behavior on alumina-supported platinum and palladium catalysts. <i>Journal of Catalysis</i> , <b>2004</b> , 221, 294-301	7.3	28
123	Novel hydrodesulfurization catalysts derived from a rhodium carbonyl complex. <i>Journal of Molecular Catalysis A</i> , <b>2004</b> , 209, 155-162		20
122	Novel hydrodesulfurization catalysts derived from a supported rhodium carbonyl complex. <i>Journal of Molecular Catalysis A</i> , <b>2004</b> , 213, 207-215		12
121	Effect of demineralization on hydrogen transfer of coal with tritiated gaseous hydrogen. <i>Fuel Processing Technology</i> , <b>2004</b> , 85, 887-901	7.2	9
120	Inhibiting effect of H <sub>2</sub> S on the DBT HDS activity of Ru-based catalysts Effect of the Cs addition. <i>Journal of Catalysis</i> , <b>2004</b> , 224, 243-251	7.3	17
119	62 Elucidation of behavior of hydrogen on solid catalysts using a tritium tracer method. <i>Studies in Surface Science and Catalysis</i> , <b>2003</b> , 145, 299-302	1.8	
118	Synthesis of Di-t-butyl-polysulfide from Isobutene, Hydrogen Sulfide, and Sulfur (Part 1) Catalysis by Alkali Metal Oxide and Alkaline Earth Metal Oxide Loaded on Alumina. <i>Journal of the Japan Petroleum Institute</i> , <b>2003</b> , 46, 35-44	1	1
117	Elucidation by computer simulations of the CUS regeneration mechanism during HDS over MoS <sub>2</sub> in combination with 35S experiments. <i>Research on Chemical Intermediates</i> , <b>2003</b> , 29, 589-607	2.8	15
116	Elucidation of sulfidation state and hydrodesulfurization mechanism on ruthenium cesium sulfide catalysts using 35S radioisotope tracer methods. <i>Journal of Catalysis</i> , <b>2003</b> , 217, 59-59	7.3	13
115	Elucidation of promotion effect of cobalt and nickel on Mo/TiO <sub>2</sub> catalyst using a 35S tracer method. <i>Applied Catalysis A: General</i> , <b>2003</b> , 238, 109-117	5.1	19
114	Elucidation of sulfur behavior in ultra deep hydrodesulfurization using 35S radioisotope tracer methods: Part I. Hydrodesulfurization of dibenzothiophene with lower concentration over a sulfided Ni-Co-Mo/Al <sub>2</sub> O <sub>3</sub> catalyst. <i>Applied Catalysis A: General</i> , <b>2003</b> , 244, 283-290	5.1	5
113	Synthesis of polysulfides using diisobutylene, sulfur, and hydrogen sulfide over solid base catalysts. <i>Applied Catalysis A: General</i> , <b>2003</b> , 253, 15-27	5.1	4
112	Oxidative desulfurization of fuel oil: Part I. Oxidation of dibenzothiophenes using tert-butyl hydroperoxide. <i>Applied Catalysis A: General</i> , <b>2003</b> , 253, 91-99	5.1	288
111	Elucidation of hydrogen transfer behavior of coal with tritiated gaseous hydrogen in the absence and the presence of a catalyst using a fixed-bed reactor?. <i>Fuel</i> , <b>2003</b> , 82, 1103-1112	7.1	3
110	Study of the sulfidation process of CrO <sub>3</sub> /Al <sub>2</sub> O <sub>3</sub> hydrodesulfurization catalysts by a 35S-labeled H <sub>2</sub> S pulse tracer method. <i>Applied Catalysis A: General</i> , <b>2003</b> , 249, 255-263	5.1	10



109	Characterization of sulfur exchange reaction between polysulfides and elemental sulfur using a 35S radioisotope tracer method. <i>Chemical Communications</i> , <b>2003</b> , 842-3	5.8	8
108	Elucidation of Retarding Effects of Sulfur and Nitrogen Compounds on Aromatic Compounds Hydrogenation. <i>Energy &amp; Fuels</i> , <b>2003</b> , 17, 1338-1345	4.1	13
107	Elucidation of sulfidation state and hydrodesulfurization mechanism on Mo/TiO <sub>2</sub> catalyst using radioisotope tracer methods. <i>Applied Catalysis A: General</i> , <b>2002</b> , 224, 191-199	5.1	22
106	Elucidation of promotion effect of nickel on Mo/Al <sub>2</sub> O <sub>3</sub> and Co-Mo/Al <sub>2</sub> O <sub>3</sub> catalysts in hydrodesulfurization using a 35S radioisotope tracer method. <i>Applied Catalysis A: General</i> , <b>2002</b> , 227, 19-28	5.1	22
105	Elucidation of hydrogen mobility in coal under reductive atmosphere using a tritium tracer method. <i>Fuel</i> , <b>2002</b> , 81, 1409-1415	7.1	3
104	Elucidation of Behavior of Sulfur on Mo Catalysts Supported on TiO <sub>2</sub> with Various Surface Areas Using 35S Tracer Methods. <i>Journal of Catalysis</i> , <b>2002</b> , 209, 266-270	7.3	22
103	Hydrodesulfurization of Dibenzothiophene over Siliceous MCM-41-Supported Catalysts II. Sulfided NiMo Catalysts. <i>Journal of Catalysis</i> , <b>2002</b> , 210, 319-327	7.3	90
102	Elucidation of Hydrogen Mobility in Coal Using a Fixed Bed Flow Reactor -Hydrogen Transfer Reaction between Tritiated Hydrogen, Coal, and Tetralin-. <i>Energy &amp; Fuels</i> , <b>2002</b> , 16, 1483-1489	4.1	5
101	Elucidation of Hydrogen Transfer between Coal and Tritiated Organic Solvent. <i>Energy &amp; Fuels</i> , <b>2002</b> , 16, 1490-1498	4.1	9
100	Elucidation of Hydrogen Mobility in Functional Groups of Coals Using Tritium Tracer Methods. <i>Energy &amp; Fuels</i> , <b>2002</b> , 16, 32-39	4.1	8
99	Elucidation of dimethylsulfone metabolism in rat using a 35S radioisotope tracer method. <i>Nutrition Research</i> , <b>2002</b> , 22, 313-322	4	15
98	Investigation of Cobalt Promotion on TiO <sub>2</sub> -supported Mo Catalysts Using a 35S Tracer Method.. <i>Journal of the Japan Petroleum Institute</i> , <b>2002</b> , 45, 39-44	1	3
97	Hydrodesulfurization of Dibenzothiophene Catalyzed by Supported Metal Carbonyl Complexes.. <i>Sekiyu Gakkaishi (Journal of the Japan Petroleum Institute)</i> , <b>2001</b> , 44, 80-91		2
96	Oxidative Desulfurization of Middle Distillate. Oxidation of Dibenzothiophene Using t-Butyl Hypochlorite.. <i>Sekiyu Gakkaishi (Journal of the Japan Petroleum Institute)</i> , <b>2001</b> , 44, 18-24		27
95	Methods of Activating Catalysts for Hydrodesulfurization of Light Gas Oil. (Part 1). Catalytic Activity of CoMo/Al <sub>2</sub> O <sub>3</sub> Catalyst Presulfided with Polysulfides for Hydrodesulfurization of Dibenzothiophene.. <i>Sekiyu Gakkaishi (Journal of the Japan Petroleum Institute)</i> , <b>2001</b> , 44, 217-224		16
94	Methods of Activating Catalysts for Hydrodesulfurization of Light Gas Oil. (Part 2). Catalytic Properties of CoMo/Al <sub>2</sub> O <sub>3</sub> Presulfided by Polysulfides for Deep and Ultra-deep Hydrodesulfurization of Light Gas Oil.. <i>Sekiyu Gakkaishi (Journal of the Japan Petroleum Institute)</i> , <b>2001</b> , 44, 225-231		14
93	Effects of H <sub>2</sub> S on hydrodesulfurization of dibenzothiophene and 4,6-dimethyldibenzothiophene on alumina-supported NiMo and NiW catalysts. <i>Applied Catalysis A: General</i> , <b>2001</b> , 209, 237-247	5.1	78
92	Hydrodesulfurization of Dibenzothiophene over Siliceous MCM-41-Supported Catalysts. <i>Journal of Catalysis</i> , <b>2001</b> , 199, 19-29	7.3	141

91	Elucidation of Sulfidation State and Hydrodesulfurization Mechanism on TiO <sub>2</sub> Catalysts Using 35S Radioisotope Tracer Methods. <i>Journal of Catalysis</i> , <b>2001</b> , 203, 322-328	7.3	33
90	Hydrodesulfurization and hydrogenation of radioactive 35S-labeled dibenzothiophene on alumina-supported chromium and promoted chromium catalysts. <i>Physical Chemistry Chemical Physics</i> , <b>2001</b> , 3, 261-266	3.6	14
89	Elucidation of Hydrogen Behavior in Coal Using a Tritium Tracer Method: Hydrogen Transfer Reaction of Coal with Tritiated Gaseous Hydrogen in a Flow Reactor. <i>Energy &amp; Fuels</i> , <b>2001</b> , 15, 1129-1138	4.1	8
88	Elucidation of hydrogen mobility in coal using a tritium pulse tracer method. Hydrogen exchange reaction of coal with tritiated gaseous hydrogen. <i>Fuel</i> , <b>2000</b> , 79, 311-316	7.1	13
87	Sulfidation of nickel- and cobalt-promoted molybdenum/alumina catalysts using a radioisotope 35S-labeled H <sub>2</sub> S pulse tracer method. <i>Applied Catalysis A: General</i> , <b>2000</b> , 196, 103-110	5.1	17
86	Hydrodesulfurization and Hydrogenation Reactions on Noble Metal Catalysts. <i>Journal of Catalysis</i> , <b>2000</b> , 190, 191-198	7.3	57
85	Hydrogen Exchange Reactions of Coal with Tritiated Gaseous Hydrogen and Water. Effects of Particle Size of Coal on Hydrogen Exchange. <i>Energy &amp; Fuels</i> , <b>2000</b> , 14, 706-711	4.1	9
84	Reactions of Tetralin with Tritiated Molecular Hydrogen on Pt/Al <sub>2</sub> O <sub>3</sub> , Pd/Al <sub>2</sub> O <sub>3</sub> , and PtPd/Al <sub>2</sub> O <sub>3</sub> Catalysts. <i>Energy &amp; Fuels</i> , <b>2000</b> , 14, 1205-1211	4.1	13
83	Oxidative Desulfurization of Light Gas Oil and Vacuum Gas Oil by Oxidation and Solvent Extraction. <i>Energy &amp; Fuels</i> , <b>2000</b> , 14, 1232-1239	4.1	773
82	Hydrodesulfurization of dibenzothiophene and hydrogenation of phenanthrene on alumina-supported Pt and Pd catalysts. <i>Applied Catalysis A: General</i> , <b>1999</b> , 184, 81-88	5.1	51
81	Hydrodesulfurization of 35S-labeled dibenzothiophene on alumina-supported ruthenium sulfide/cesium catalysts. <i>Applied Catalysis A: General</i> , <b>1999</b> , 182, 345-355	5.1	9
80	Elucidation of hydrodesulfurization mechanism on molybdenum-based catalysts using 35S radioisotope pulse tracer methods. <i>Catalysis Surveys From Asia</i> , <b>1999</b> , 3, 17-25		7
79	Elucidation of sulfur mobility on Cr, Mo and W-based catalysts in hydrodesulfurization using a 35S pulse tracer method. <i>Reaction Kinetics and Catalysis Letters</i> , <b>1999</b> , 68, 69-75		4
78	Hydrodesulfurization and hydrogenation on alumina-supported tungsten and nickel-promoted tungsten catalysts. <i>Physical Chemistry Chemical Physics</i> , <b>1999</b> , 1, 921-927	3.6	31
77	Oxidative Desulfurization of Middle Distillate Using Ozone.. <i>Sekiyu Gakkaishi (Journal of the Japan Petroleum Institute)</i> , <b>1999</b> , 42, 315-320		45
76	Deep Hydrodesulfurization of Light Gas Oil. (Part 2). Effect of Hydrogen Sulfide on Hydrodesulfurization of Dibenzothiophenes Included in Hydrotreated Light Gas Oil.. <i>Sekiyu Gakkaishi (Journal of the Japan Petroleum Institute)</i> , <b>1999</b> , 42, 150-156		4
75	Estimation of the behaviour of hydrogen in naphthalene in pyrolysis of coal tar using tritium tracer methods. <i>Fuel</i> , <b>1998</b> , 77, 815-820	7.1	2
74	Elucidation of coal liquefaction mechanisms using a tritium tracer method: hydrogen exchange reaction of solvents with tritiated molecular hydrogen in the presence and absence of H <sub>2</sub> S. <i>Fuel</i> , <b>1998</b> , 77, 947-952	7.1	7



73	A study on the preparation of supported metal oxide catalysts using JRC-reference catalysts. I. Preparation of a molybdena/alumina catalyst. Part 4. Preparation parameters and impact index. <i>Applied Catalysis A: General</i> , <b>1998</b> , 170, 359-379	5.1	12
72	Elucidation of hydrodesulfurization mechanism using 35S radioisotope pulse tracer methods. <i>Catalysis Today</i> , <b>1998</b> , 45, 285-291	5.3	2
71	A study on the preparation of supported metal oxide catalysts using JRC-reference catalysts. I. Preparation of a molybdena/alumina catalyst. Part 3. Drying process. <i>Applied Catalysis A: General</i> , <b>1998</b> , 170, 343-357	5.1	15
70	Pyrolysis of Coal Tar. (I). Effects of Reaction Conditions on Products Yields and Composition of Light Fraction.. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , <b>1998</b> , 77, 119-130	0.5	2
69	Elucidation of Hydrogen Mobility of Coal Tar Using a Tritium Tracer Method. Hydrogen Exchange Reaction of Coal Tar with Tritiated Water.. <i>Sekiyu Gakkaishi (Journal of the Japan Petroleum Institute)</i> , <b>1998</b> , 41, 164-167		1
68	Hydrodesulfurization of Dibenzothiophene Catalyzed by Supported Metal Carbonyl Complexes(Part 8) Hydrodesulfurization of 35S-Labeled Dibenzothiophene on Alumina-supported Ruthenium Sulfide-Cesium Catalysts.. <i>Sekiyu Gakkaishi (Journal of the Japan Petroleum Institute)</i> , <b>1998</b> , 41, 51-56		4
67	Pyrolysis of Coal Tar. (II). Functional Group Analysis for Heavy Fraction of Coal Tar.. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , <b>1998</b> , 77, 234-240	0.5	2
66	Elucidation of molybdenum-based catalysts using a radioisotope tracer method Part 2 Promotion effect of cobalt on molybdena/alumina catalyst. <i>Journal of the Chemical Society, Faraday Transactions</i> , <b>1997</b> , 93, 4395-4400		23
65	Sulfidation state of alumina-supported molybdenum catalysts estimated by a 35Sradioisotope tracer method. <i>Journal of the Chemical Society, Faraday Transactions</i> , <b>1997</b> , 93, 3709-3713		11
64	Reactivity of Naphthalene in Pyrolysis of Coal Tar Using the 14C Tracer Method. <i>Energy &amp; Fuels</i> , <b>1997</b> , 11, 1299-1302	4.1	4
63	Elucidation of Coal Liquefaction Mechanism Using a Tritium Tracer Method. Effect of H2S and H2O on Hydrogen Exchange Reaction of Tetralin with Tritiated Molecular Hydrogen. <i>Energy &amp; Fuels</i> , <b>1997</b> , 11, 470-476	4.1	10
62	Elucidation of Mechanism of Coal Liquefaction Using Tritium and 35S Tracer Methods. <i>Energy &amp; Fuels</i> , <b>1997</b> , 11, 724-729	4.1	9
61	Elucidation of Hydrogen Mobility in Coal Using a Tritium Tracer Method. 1. Hydrogen Exchange Reaction of Coal with Tritiated Water. <i>Energy &amp; Fuels</i> , <b>1997</b> , 11, 1288-1292	4.1	20
60	Deep Hydrodesulfurization of Light Gas Oil. 1. Kinetics and Mechanisms of Dibenzothiophene Hydrodesulfurization. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1997</b> , 36, 5146-5152	3.9	65
59	Elucidation of molybdenum-based catalysts using aradioisotope tracer method Part 1. Hydrodesulfurization activityand structure of sulfided molybdena/aluminacatalysts. <i>Journal of the Chemical Society, Faraday Transactions</i> , <b>1997</b> , 93, 1821-1826		28
58	Hydrodesulfurization of Dibenzothiophene Catalyzed by Supported Metal Carbonyl Complexes (Part 7) Hydrodesulfurization Catalysts Prepared from Alumina-supported Ruthenium Carbonyl-Alkaline-earth Metal Hydroxide Systems.. <i>Sekiyu Gakkaishi (Journal of the Japan Petroleum Institute)</i> , <b>1997</b> , 40, 516-523		2
57	Effect of H2S on Hydrodesulfurization of Dibenzothiophene and 4,6-Dimethyldibenzothiophene.. <i>Sekiyu Gakkaishi (Journal of the Japan Petroleum Institute)</i> , <b>1997</b> , 40, 185-191		16
56	Elucidation of hydrodesulfurization mechanism using 35S radioisotope pulse tracer methods. <i>Catalysis Today</i> , <b>1997</b> , 39, 3-12	5.3	11

55	Coal liquefaction mechanism using a tritium tracer method. <i>AIChE Journal</i> , <b>1997</b> , 43, 3105-3110	3.6	3
54	Elucidation of Behavior of Sulfur on Sulfided Co-Mo/Al <sub>2</sub> O <sub>3</sub> Catalyst Using a <sup>35</sup> S Radioisotope Pulse Tracer Method. <i>Journal of Catalysis</i> , <b>1997</b> , 170, 286-294	7.3	24
53	Deep Desulfurization of Light Oil. (Part 5). Hydrodesulfurization of Methyl-substituted Benzothiophenes and Dibenzothiophenes in Light Gas Oil Catalyzed by Various Sulfided Co-Mo/Al <sub>2</sub> O <sub>3</sub> and Ni-Mo/Al <sub>2</sub> O <sub>3</sub> Catalysts.. <i>Sekiyu Gakkaishi (Journal of the Japan Petroleum Institute)</i> , <b>1997</b> , 40, 29-34		4
52	The Role of Cobalt on Hydrodesulfurization and Hydrogenation of Dibenzothiophene and 4,6-Dimethyldibenzothiophene Catalyzed by Co-Mo/Al <sub>2</sub> O <sub>3</sub> .. <i>Sekiyu Gakkaishi (Journal of the Japan Petroleum Institute)</i> , <b>1997</b> , 40, 408-414		4
51	Carbonization Behavior of Hydrotreated Coal Tar Pitch Containing Fine Molybdenum and Ruthenium Particles. <i>Energy &amp; Fuels</i> , <b>1996</b> , 10, 726-732	4.1	3
50	Hydrodesulfurization of Dibenzothiophene Catalyzed by Supported Metal Carbonyl Complexes(Part 5) Catalysts for Hydrodesulfurization Prepared from Alumina-supported Ruthenium Carbonyl-Alkali Metal Hydroxide Systems.. <i>Sekiyu Gakkaishi (Journal of the Japan Petroleum Institute)</i> , <b>1996</b> , 39, 211-221		8
49	Elucidation of Sulfur Behavior on Alumina-Supported Ruthenium Sulfide-Cesium Catalysts Using Radioactive <sup>35</sup> S as a Tracer. <i>Chemistry Letters</i> , <b>1996</b> , 25, 743-744	1.7	4
48	Sulfur exchange on Co <sup>2+</sup> /Mo/Al <sub>2</sub> O <sub>3</sub> hydrodesulfurization catalyst using <sup>35</sup> S radioisotope tracer. <i>Catalysis Today</i> , <b>1996</b> , 29, 197-202	5.3	17
47	Hydrodesulfurization of Dibenzothiophene Catalyzed by Supported Metal Carbonyl Complexes (Part 4) Hydrodesulfurization Catalysts Prepared from Alumina and Silica-Alumina Supported Molybdenum and Cobalt Carbonyls.. <i>Sekiyu Gakkaishi (Journal of the Japan Petroleum Institute)</i> , <b>1996</b> , 39, 21-33		4
46	Hydrodesulfurization of Dibenzothiophene Catalyzed by Supported Metal Carbonyl Complexes. (Part 6). Effects of Supports on Activities of HDS Catalysts Prepared from Supported Ruthenium Carbonyl-Cesium Hydroxide Systems.. <i>Sekiyu Gakkaishi (Journal of the Japan Petroleum Institute)</i> , <b>1996</b> , 39, 103-106		6
45	Deep Desulfurization of Light Oil. (Part 4). Hydrodesulfurization of Methyl-substituted Dibenzothiophenes Catalyzed by Various Co-Mo/Al <sub>2</sub> O <sub>3</sub> and Ni-Mo/Al <sub>2</sub> O <sub>3</sub> Catalysts.. <i>Sekiyu Gakkaishi (Journal of the Japan Petroleum Institute)</i> , <b>1996</b> , 39, 410-417		24
44	Protected (Fluoroaryl)borates as Effective Counteranions for Cationic Metallocene Polymerization Catalysts. <i>Organometallics</i> , <b>1995</b> , 14, 3135-3137	3.8	88
43	Elucidation of hydrogen transfer mechanisms in coal liquefaction using a tritium tracer method: Effects of solvents on hydrogen exchange reactions of coals with tritiated molecular hydrogen. <i>Fuel</i> , <b>1995</b> , 74, 63-69	7.1	27
42	Functional Group Analysis of Hydrogenated Coal Tar Pitch.. <i>Sekiyu Gakkaishi (Journal of the Japan Petroleum Institute)</i> , <b>1994</b> , 37, 136-146		2
41	Study of hydrodesulfurization by the use of sulfur-35-labeled dibenzothiophene. 1. Hydrodesulfurization mechanism on sulfided molybdenum/alumina. <i>The Journal of Physical Chemistry</i> , <b>1994</b> , 98, 907-911		57
40	Study of hydrodesulfurization by the use of sulfur-35-labeled dibenzothiophene. 2. Behavior of sulfur in hydrodesulfurization, hydrodeoxygenation, and hydrodenitrogenation on a sulfided molybdenum/alumina catalyst. <i>The Journal of Physical Chemistry</i> , <b>1994</b> , 98, 912-916		35
39	Pyrolysis mechanism of pitch for carbon fiber using tritium tracer method. <i>Fuel Processing Technology</i> , <b>1994</b> , 38, 45-55	7.2	3
38	Estimation of hydrogen mobility of coal tar pitch for carbon fiber using a tritium tracer method. <i>Fuel Processing Technology</i> , <b>1994</b> , 38, 69-83	7.2	3

37	Study of Hydrodesulfurization of Dibenzothiophene on Ni-Mo/Al <sub>2</sub> O <sub>3</sub> , Mo/Al <sub>2</sub> O <sub>3</sub> , and Ni/Al <sub>2</sub> O <sub>3</sub> Catalysts by the Use of Radioisotope <sup>35</sup> S Tracer. <i>Journal of Catalysis</i> , <b>1994</b> , 149, 171-180	7.3	46
36	Hydrodesulfurization of Dibenzothiophene Catalyzed by Alumina-Supported Ruthenium Carbonyl Complexes in a Pressurized Flow System. <i>Journal of Catalysis</i> , <b>1994</b> , 150, 212-216	7.3	19
35	Hydrodesulfurization of Dibenzothiophene Catalyzed by Supported Metal Carbonyl Complexes(Part 2). Hydrodesulfurization Catalysts Prepared from Alumina-supported Anionic Ruthenium Carbonyls.. <i>Sekiyu Gakkaishi (Journal of the Japan Petroleum Institute)</i> , <b>1994</b> , 37, 300-310		5
34	Hydrodesulfurization of Dibenzothiophene Catalyzed by Supported Metal Carbonyls(Part 3). Effects of Supports on Catalysts Prepared from Supported Anionic Molybdenum Carbonyls.. <i>Sekiyu Gakkaishi (Journal of the Japan Petroleum Institute)</i> , <b>1994</b> , 37, 411-418		1
33	Hydrogenation of coal tar pitch with tritiated hydrogen catalyzed by metal carbonyl complexes. Estimation of hydrogen mobility of coal tar pitch in catalytic systems. <i>Energy &amp; Fuels</i> , <b>1993</b> , 7, 334-336	4.1	7
32	Estimation of hydrogen mobility in coal using a tritium tracer method. Hydrogen exchange reactions of coals with tritiated water and molecular hydrogen. <i>Energy &amp; Fuels</i> , <b>1993</b> , 7, 362-366	4.1	27
31	. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1993</b> , 32, 1723-1726	3.9	5
30	Deep desulfurization of light oil. 3. Effects of solvents on hydrodesulfurization of dibenzothiophene. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1993</b> , 32, 753-755	3.9	25
29	Hydrodesulfurization of Dibenzothiophene Catalyzed by Silica-Alumina Supported Anionic Molybdenum Carbonyl Complexes. <i>Chemistry Letters</i> , <b>1993</b> , 22, 589-592	1.7	11
28	Hydrodesulfurization of Dibenzothiophene Catalyzed by Supported Metal Carbonyl Complexes. (Part 1). Hydrodesulfurization Catalysts Prepared from Alumina-supported Group VI Metal Carbonyl Complexes.. <i>Sekiyu Gakkaishi (Journal of the Japan Petroleum Institute)</i> , <b>1993</b> , 36, 360-368		3
27	Mechanism of Hydrodesulfurization of Dibenzothiophene on Co-Mo/Al <sub>2</sub> O <sub>3</sub> and Co/Al <sub>2</sub> O <sub>3</sub> Catalyst by the Use of Radioisotope <sup>35</sup> S Tracer. <i>Journal of Catalysis</i> , <b>1993</b> , 143, 239-248	7.3	57
26	Deep desulfurization of light oil. Part 2: hydrodesulfurization of dibenzothiophene, 4-methyldibenzothiophene and 4,6-dimethyldibenzothiophene. <i>Applied Catalysis A: General</i> , <b>1993</b> , 97, L1-L9	5.1	142
25	Effects of Solvents on Deep Hydrodesulfurization of Benzothiophene and Dibenzothiophene. <i>Journal of Catalysis</i> , <b>1993</b> , 140, 184-189	7.3	43
24	Deep Desulfurization of Light Oil (Part 1) Hydrodesulfurization of Methyl-substituted Benzothiophenes and Dibenzothiophenes in Light Gas Oil.. <i>Sekiyu Gakkaishi (Journal of the Japan Petroleum Institute)</i> , <b>1993</b> , 36, 467-471		21
23	Hydrodesulfurization of Dibenzothiophene Catalyzed by Alumina-Supported Ruthenium Carbonyl-Alkali Metal Hydroxide Systems. <i>Chemistry Letters</i> , <b>1992</b> , 21, 2285-2288	1.7	8
22	Deep Hydrodesulfurization of Alkyl-Substituted Dibenzothiophenes in Light Oil. <i>Chemistry Letters</i> , <b>1992</b> , 21, 669-670	1.7	19
21	Hydrodesulfurization of sulfur-containing polyaromatic compounds in light oil. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1992</b> , 31, 1577-1580	3.9	233
20	Effects of Organometallic Complexes on Hydrogenation of Coal Tar Pitch for High Performance Carbon Fiber.. <i>Sekiyu Gakkaishi (Journal of the Japan Petroleum Institute)</i> , <b>1992</b> , 35, 451-459		4

19	Effects of Solvents in Deep Desulfurization of Benzothiophene and Dibenzothiophene. <i>Chemistry Letters</i> , <b>1991</b> , 20, 2233-2236	1.7	13
18	Tritium as a tracer in coal liquefaction. 4. Hydrogen-exchange reactions between hydrogen in coals and tritiated hydrogen molecule. <i>Energy &amp; Fuels</i> , <b>1991</b> , 5, 459-463	4.1	17
17	Tritium as a tracer in coal liquefaction. 1. Hydrogen mobility of Tetralin under coal liquefaction conditions. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1991</b> , 30, 1755-1759	3.9	22
16	Hydrogenation Mechanism of Coal Tar Pitch for Carbon Fiber(Part 3). Effects of Hydrotreatment on Pyrolysis Reactivity of Each Component in Coal Tar Pitch for High Performance Carbon Fiber.. <i>Sekiyu Gakkaishi (Journal of the Japan Petroleum Institute)</i> , <b>1991</b> , 34, 314-321		3
15	Characterization of Pitch-based Carbon Fibers. Part 1. Carbonization Behavior of Stabilized Mesophase Pitch Fibers.. <i>Sekiyu Gakkaishi (Journal of the Japan Petroleum Institute)</i> , <b>1991</b> , 34, 510-517		4
14	Estimation of Hydrogen Mobility in Coal Using a Tritium Tracer Method. Hydrogen Exchange Reaction of Coal with Tritiated Water. <i>Chemistry Letters</i> , <b>1990</b> , 19, 1571-1574	1.7	
13	Mechanism of Thermal Dehydrogenation of Hydrotreated Pitch Using Tritium Tracer. <i>Chemistry Letters</i> , <b>1990</b> , 19, 1235-1238	1.7	2
12	Fischer-Tropsch synthesis catalyzed by Fe-alkaline earth/.GAMMA.-Al <sub>2</sub> O <sub>3</sub> prepared from (NEt <sub>3</sub> H)(HFe <sub>3</sub> (CO) <sub>11</sub> ).. <i>Sekiyu Gakkaishi (Journal of the Japan Petroleum Institute)</i> , <b>1990</b> , 33, 327-331		
11	Hydrogenation mechanism of coal tar pitch for carbon fiber. (Part 2). Hydrogen transfer mechanism from tetralin to coal tar pitch for high performance carbon fiber using tritium tracer method.. <i>Sekiyu Gakkaishi (Journal of the Japan Petroleum Institute)</i> , <b>1990</b> , 33, 299-303		2
10	Hydrogenation mechanism of coal tar pitch for carbon fiber. (Part 1). Estimation of hydrogen mobility of coal tar pitch for high performance carbon fiber using tritium tracer methods.. <i>Sekiyu Gakkaishi (Journal of the Japan Petroleum Institute)</i> , <b>1990</b> , 33, 181-188		1
9	Fischer-Tropsch synthesis catalyzed by a .gamma.-alumina-supported [N(Et) <sub>3</sub> H][HFe <sub>3</sub> (CO) <sub>11</sub> ]-alkali metal hydroxide system. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1990</b> , 29, 163-170	3.9	6
8	Tritium as a tracer in coal liquefaction. 3. Reactions of morwell brown coal with tritiated hydrogen molecules. <i>Energy &amp; Fuels</i> , <b>1990</b> , 4, 201-206	4.1	18
7	Fischer-Tropsch synthesis catalyzed by Fe-alkali/zeolites prepared from (NEt <sub>3</sub> H)+(HFe <sub>3</sub> (CO) <sub>11</sub> ).. <i>Sekiyu Gakkaishi (Journal of the Japan Petroleum Institute)</i> , <b>1990</b> , 33, 28-37		2
6	Reactions of undecacarbonyltriferrate with $\pi$ -unsaturated acyl halides. Decomposition of $[\beta\text{-RCH}_2\text{CHCOOCFe}_3(\text{CO})_{10}]$ to $[\alpha\text{-RCH}_2\text{CHFe}_2(\text{CO})_7]$ involving transfer of the acyl group from oxygen to iron. <i>Journal of Organometallic Chemistry</i> , <b>1989</b> , 368, 199-208	2.3	5
5	Fischer-Tropsch synthesis for light olefins using iron carbonyl-alkali metal hydroxide/zeolite systems as catalyst precursors.. <i>Sekiyu Gakkaishi (Journal of the Japan Petroleum Institute)</i> , <b>1988</b> , 31, 62-70		
4	Fischer-Tropsch synthesis using a [NEt <sub>3</sub> H]+[HFe <sub>3</sub> (CO) <sub>11</sub> ]potassium hydroxide-Y zeolite system as a catalyst precursor. <i>Journal of Molecular Catalysis</i> , <b>1987</b> , 40, 119-123		
3	Acylation and alkylation of (.eta. <sup>1</sup> -acryloyl)tetracarbonylferrates. Formation of (.eta. <sup>3</sup> :.eta. <sup>1</sup> -allylacyl)iron complexes by the carbonylation of .alpha.,.beta.-unsaturated carbene ligands. <i>Organometallics</i> , <b>1986</b> , 5, 238-244	3.8	24
2	FISCHER-TROPSCH SYNTHESIS OF LIGHT OLEFINS CATALYZED BY Fe <sub>3</sub> (CO) <sub>12</sub> -MOH-HYZEOLITE AND Fe <sub>3</sub> (CO) <sub>12</sub> -MZSM5 (M=K OR Cs ). <i>Chemistry Letters</i> , <b>1985</b> , 14, 1463-1466	1.7	12

- 1 Dehydrocyclization-cracking of soybean oil using Zeolite-Al<sub>2</sub>O<sub>3</sub> hierarchical composite-supported Pt, Pd, CoMo, and NiMo sulfide catalysts. *Biomass Conversion and Biorefinery*, 1 2.3