# Makoto Toba

List of Publications by Year
in descending order

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| 94 | 2,413 | 201674 | 223800 |
|---|---|---|---|
| papers | citations | 27 h-index | 46 g-index |

| 94 | 94 | 94 | 2239 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Hydrodeoxygenation of waste vegetable oil over sulfide catalysts. Catalysis Today, 2011, 164, 533-537. | 4.4 | 192 |
| 2 | Shape-selective synthesis of 2,6-diisopropylnaphthalene over H-mordenite catalyst. Journal of the Chemical Society Chemical Communications, 1991, , 39. | 2.0 | 104 |
| 3 | Synthesis of alcohols and diols by hydrogenation of carboxylic acids and esters over Ruâ€“Snâ€“Al2O3 catalysts. Applied Catalysis A: General, 1999, 189, 243-250. | 4.3 | 101 |
| 4 | Chapter 7 Shape-selective alkylation of polynuclear aromatics. Catalysis Today, 1994, 19, 187-211. | 4.4 | 100 |
| 5 | Active phases and sulfur tolerance of bimetallic Pdâ€“Pt catalysts used for hydrotreatment. Applied Catalysis A: General, 2007, 322, 152-171. | 4.3 | 100 |
| 6 | Deoxygenation of guaiacol and woody tar over reduced catalysts. Applied Catalysis B: Environmental, 2014, 146, 237-243. | 20.2 | 89 |
| 7 | Selective hydrogenation of oleic acid to 9-octadecen-1-ol: Catalyst preparation and optimum reaction conditions. JAOCS, Journal of the American Oil Chemists' Society, 1992, 69, 410-416. | 1.9 | 80 |
| 8 | Synthesis, characterisation and catalytic applications of solâ€“gel derived silicaâ€–phosphotungstic acid composites. Applied Catalysis A: General, 2002, 228, 83-94. | 4.3 | 76 |
| 9 | Preparation of cerium-loaded Y-zeolites for removal of organic sulfur compounds from hydrodesulfurizated gasoline and diesel oil. Journal of Colloid and Interface Science, 2006, 298, 535-542. | 9.4 | 71 |
| 10 | Ti-incorporated SBA-15 mesoporous silica as an efficient and robust Lewis solid acid catalyst for the production of high-quality biodiesel fuels. Applied Catalysis B: Environmental, 2014, 148-149, 344-356. | 20.2 | 70 |
| 11 | Selective hydrodesulfurization of FCC gasoline over CoMo/Al2O3 sulfide catalyst. Catalysis Today, 2005, 104, 64-69. | 4.4 | 56 |
| 12 | Pyrolyzerâ€“GC/MS system-based analysis of the effects of zeolite catalysts on the fast pyrolysis of Jatropha husk. Applied Catalysis A: General, 2013, 456, 174-181. | 4.3 | 56 |
| 13 | Effect of SiO2 pore size on catalytic fast pyrolysis of Jatropha residues by using pyrolyzer-GC/MS. Catalysis Communications, 2013, 36, 1-4. | 3.3 | 55 |
| 14 | Reactivity of olefins in the hydrodesulfurization of FCC gasoline over CoMo sulfide catalyst. Applied Catalysis B: Environmental, 2007, 70, 542-547. | 20.2 | 54 |
| 15 | Thermal behaviour of alumina from aluminium alkoxide reacted with complexing agent. Journal of the Chemical Society, Faraday Transactions, 1992, 88, 97. | 1.7 | 48 |
| 16 | Enumeration of the Conformers of Unbranched Aliphatic Alkanes. Journal of Physical Chemistry A, 1998, 102, 7698-7703. | 2.5 | 45 |
| 17 | Effect of noble metal particle size on the sulfur tolerance of monometallic Pd and Pt catalysts supported on high-silica USY zeolite. Applied Catalysis A: General, 2005, 286, 249-257. | 4.3 | 42 |
| 18 | Effects of Acidic Properties on the Catalytic Performance of CoMo Sulfide Catalysts in Selective Hydrodesulfurization of Gasoline Fractions. Energy & Fuels, 2008, 22, 1456-1462. | 5.1 | 42 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Production of Jatropha biodiesel fuel over sulfonic acid-based solid acids. Bioresource Technology, 2014, 157, 346-350. | 9.6 | 38 |
| 20 | Effect of the type of preparation on the properties of titania/silicas. Journal of Molecular Catalysis, 1994, 91, 277-289. | 1.2 | 36 |
| 21 | The effect of preparation methods on the properties of zirconia/silicas. Journal of Molecular Catalysis, 1994, 94, 85-96. | 1.2 | 35 |
| 22 | Effect of preparation methods on properties of alumina/titanias. Journal of Materials Chemistry, 1994, 4, 585. | 6.7 | 35 |
| 23 | Materials chemistry communications. New preparation method for highly siliceous zeolite films. Journal of Materials Chemistry, 1992, 2, 141. | 6.7 | 33 |
| 24 | Synthesis and characterization of polycrystalline SAPO-5 film. Journal of Molecular Catalysis, 1992, 77, L19-L26. | 1.2 | 32 |
| 25 | Synthesis of a zeolite film on a mercury surface. Advanced Materials, 1996, 8, 517-520. | 21.0 | 30 |
| 26 | Ultra Deep Hydrodesulfurization of Gas Oils Over Sulfide and/or Noble Metal Catalysts. Catalysis Surveys From Asia, 2004, 8, 47-60. | 2.6 | 30 |
| 27 | Effect of the coexistence of nitrogen compounds on the sulfur tolerance and catalytic activity of Pd and Pt monometallic catalysts supported on high-silica USY zeolite and amorphous silica. Applied Catalysis A: General, 2005, 293, 137-144. | 4.3 | 30 |
| 28 | Carbonaceous Ti-incorporated SBA-15 with enhanced activity and durability for high-quality biodiesel production: Synthesis and utilization of the P123 template as carbon source. Applied Catalysis B: Environmental, 2016, 181, 800-809. | 20.2 | 30 |
| 29 | Effect of lanthanum promotion on the structural and catalytic properties of nickel-molybdenum/alumina catalysts. Applied Catalysis A: General, 2003, 246, 213-225. | 4.3 | 29 |
| 30 | Positional Isomerization of Dialkylnaphthalenes:Â A Comprehensive Interpretation of the Selective Formation of 2,6-DIPN over HM Zeolite. Journal of Physical Chemistry A, 2001, 105, 6513-6518. | 2.5 | 27 |
| 31 | Synthesis of thermostable high-surface-area alumina for catalyst support. Journal of Materials Science Letters, 1990, 9, 522-523. | 0.5 | 26 |
| 32 | Hydrogenation of 9-octadecenoic acid by Ruâ^'Snâ^'Al2 O3 catalysts: Effects of catalyst preparation method. JAOCS, Journal of the American Oil Chemists' Society, 1994, 71, 501-506. | 1.9 | 26 |
| 33 | Production of high-quality biodiesel fuels from various vegetable oils over Ti-incorporated SBA-15 mesoporous silica. Catalysis Communications, 2013, 41, 136-139. | 3.3 | 26 |
| 34 | EXAFS study on the sulfidation behavior of Pd, Pt and Pdâ€“Pt catalysts supported on amorphous silica and high-silica USY zeolite. Applied Catalysis A: General, 2005, 290, 73-80. | 4.3 | 25 |
| 35 | Catalytic activity of a zeolite disc synthesized through solid-state reactions. Microporous and Mesoporous Materials, 1998, 21, 453-459. | 4.4 | 22 |
| 36 | Transformation of non-edible vegetable oils into biodiesel fuels catalyzed by unconventional sulfonic acid-functionalized SBA-15. Applied Catalysis A: General, 2014, 485, 28-39. | 4.3 | 22 |

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|---|---|---|---|
| 37 | Effect of preparation methods on properties of amorphous alumina/silicas. Journal of Materials Chemistry, 1994, 4, 1131. | 6.7 | 21 |
| 38 | Upgrading of palm biodiesel fuel over supported palladium catalysts. Comptes Rendus Chimie, 2016, 19, 1166-1173. | 0.5 | 21 |
| 39 | Iron Oxide Catalysts Supported on Porous Silica for the Production of Biodiesel from Crude Jatropha Oil. JAOCS, Journal of the American Oil Chemists' Society, 2012, 89, 1981-1989. | 1.9 | 20 |
| 40 | Preparation, characterization and application of the magadiite based mesoporous composite material of catalytic interest. Microporous and Mesoporous Materials, 2000, 35-36, 631-641. | 4.4 | 18 |
| 41 | Formation of size-controlled micro-pores in amorphous mixed oxides by an advanced solâ€“gel method. Journal of the Chemical Society Chemical Communications, 1990, , 1211-1212. | 2.0 | 16 |
| 42 | Co-Processing of Jatropha-Derived Bio-Oil with Petroleum Distillates over Mesoporous CoMo and NiMo Sulfide Catalysts. Catalysts, 2018, 8, 59. | 3.5 | 16 |
| 43 | Structural regulation of iron oxide supported on a metal oxide by organic compounds. Journal of the Chemical Society Chemical Communications, 1988, , 1540. | 2.0 | 15 |
| 44 | Synthesis of cordierite by complexing agent-assisted solâ€“gel procedure. Journal of the Chemical Society Chemical Communications, 1990, , 1268-1269. | 2.0 | 15 |
| 45 | Mesoporous materials synthesized by intercalation of silicate tubes between magadiite layers. Applied Catalysis A: General, 1999, 176, L153-L158. | 4.3 | 15 |
| 46 | Re-Co bimetallic catalysts prepared by sol/gel technique: characterization and catalytic properties. Applied Catalysis A: General, 2003, 246, 79-86. | 4.3 | 15 |
| 47 | Profiling and catalytic upgrading of commercial palm oil-derived biodiesel fuels for high-blend fuels. Catalysis Today, 2019, 332, 122-131. | 4.4 | 15 |
| 48 | Title is missing!. Catalysis Letters, 2001, 71, 55-61. | 2.6 | 14 |
| 49 | Preparation of highly dispersed silica-supported palladium catalysts by a complexing agent-assisted solâ€“gel method and their characteristics. Applied Catalysis A: General, 2002, 229, 165-174. | 4.3 | 14 |
| 50 | éšæ²¹ãƒ¤ã,ªãƒ‡ã,£ãƒ¼ã,¼ãƒ«ã«å«ã¾ã,Œã,‹è„‚è‚ªé…,ãƒ¡ãƒªãƒ«ã,¨ã,¹ãƒ†ãƒ«ã®é…,åŒ–æŒ™å‹•ã,ˆã³éƒ¨åˆ†æ°´ç´ åŒ–å‡¦ç†ã«ã,ˆã,‹é…, | | |
| 51 | Synthesis of oriented zeolite film on mercury surface. Studies in Surface Science and Catalysis, 1997, , 2225-2232. | 1.5 | 13 |
| 52 | Title is missing!. Catalysis Letters, 1998, 52, 49-53. | 2.6 | 13 |
| 53 | Molecular Electrostatics, Energetics, and Dynamics of the Alkylation of Naphthalene:Â Positional Isomerization of Monoalkylnaphthalenes at Hartreeâ^'Fock and Correlated Levels with BSSE Corrections. Journal of Physical Chemistry A, 2000, 104, 1337-1345. | 2.5 | 13 |
| 54 | A Chemical Potential Diagram and an In-situ X-ray Diffraction Analysis of a Vâ€“Mgâ€“O Catalyst Used in the Oxidative Dehydrogenation of n-Butane. Catalysis Letters, 2009, 127, 63-69. | 2.6 | 13 |

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|---|---|---|---|
| 55 | Hydrogenation of oleic acid to 9-octadecen-1-ol with rhenium-tin catalyst. JAOCS, Journal of the American Oil Chemists' Society, 1993, 70, 601-605. | 1.9 | 12 |
| 56 | Effects of raw materials and preparation methods of catalysts on the selective hydrogenation of ethyl phenylacetate. JAOCS, Journal of the American Oil Chemists' Society, 1996, 73, 465-469. | 1.9 | 12 |
| 57 | Effect of Solvent Diols and Ligands on the Properties of Sol-Gel Alumina-Silicas. Journal of Sol-Gel Science and Technology, 1998, 13, 1027-1031. | 2.4 | 11 |
| 58 | Hydrotreating of Jatropha-derived Bio-oil over Mesoporous Sulfide Catalysts to Produce Drop-in Transportation Fuels. Catalysts, 2019, 9, 392. | 3.5 | 11 |
| 59 | Preparation and properties of the thermostable alumina mixed oxides for combustion catalysts.. Nippon Kagaku Kaishi / Chemical Society of Japan - Chemistry and Industrial Chemistry Journal, 1988, 1988, 1542-1548. | 0.1 | 10 |
| 60 | A costâ€effective acid degumming process produces highâ€quality Jatropha oil in tropical monsoon climates. European Journal of Lipid Science and Technology, 2015, 117, 1079-1087. | 1.5 | 10 |
| 61 | Selective hydrogenation of ethyl phenylacetate to 2-phenylethanol: a convenient catalyst preparation method. Catalysis Letters, 1995, 30, 297-304. | 2.6 | 9 |
| 62 | Alkylation of toluene with methanol over zeolitedisc catalyst synthesized via solid-state reactions. Applied Catalysis A: General, 1997, 156, 335-345. | 4.3 | 8 |
| 63 | Oxygenâ€Assisted Hydrogenation of Jatrophaâ€Oilâ€Derived Biodiesel Fuel over an Aluminaâ€Supported Palladium Catalyst To Produce Hydrotreated Fatty Acid Methyl Esters for Highâ€Blend Fuels. ChemCatChem, 2017, 9, 2633-2637. | 3.7 | 8 |
| 64 | Efficient simultaneous esterification/transesterification of non-edible Jatropha oil for biodiesel fuel production by template-free synthesized nanoporous titanosilicates. Catalysis Today, 2020, 356, 56-63. | 4.4 | 8 |
| 65 | A REGIO- AND STEREOSELECTIVE SYNTHESIS OF ALDOLIZED Î³-DIKETONESVIATIN(IV) BISENOLATES BY THE USE OF BIS(2-PYRIDINETHIOLATO)TIN(II). Chemistry Letters, 1985, 14, 1539-1542. | 1.3 | 7 |
| 66 | Control of structure and particle size of iron oxide on carrier oxide by the sol-gel method using organic polydentate ligands. Journal of Sol-Gel Science and Technology, 1994, 2, 359-362. | 2.4 | 7 |
| 67 | Effect of organic ligands used in sol-gel process on the formation of mullite. Journal of Sol-Gel Science and Technology, 1997, 8, 101-106. | 2.4 | 7 |
| 68 | Highly selective formation of aldehydes in the hydrogenation of the corresponding acid chlorides with silica-supported palladium catalysts prepared by a complexing agent-assisted solâ€“gel method. Applied Catalysis A: General, 2002, 229, 175-180. | 4.3 | 7 |
| 69 | Analysis of Sulfur Compounds in Straight-run Naphtha and FCC Gasoline. Journal of the Japan Petroleum Institute, 2008, 51, 225-233. | 0.6 | 7 |
| 70 | Homogeneous doping of silica by uranyl ions using a chemical mixing procedure. Journal of the Chemical Society Chemical Communications, 1986, , 678. | 2.0 | 6 |
| 71 | Preparation of Layer Structure-Controlled Ru-Sn-Al2O3 Catalysts and Their Reactivity. Journal of Sol-Gel Science and Technology, 1998, 13, 1037-1041. | 2.4 | 6 |
| 72 | Sulfur Tolerance of Pd, Pt and Pd-Pt Catalysts Supported on Amorphous Silica. Journal of the Japan Petroleum Institute, 2004, 47, 222-223. | 0.6 | 6 |

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|---|---|---|---|
| 73 | Surface species structure and activity in NO decomposition of an anatase-supported Vâ€“Oâ€“Mo catalyst. Catalysis Today, 2008, 137, 273-277. | 4.4 | 6 |
| 74 | Fast Pyrolysis of Jatropha Residues over Zeolite Catalysts. Journal of the Japan Petroleum Institute, 2012, 55, 69-70. | 0.6 | 6 |
| 75 | Control of the acidity and surface area of silica-aluminas by a chemical mixing procedure.. Nippon Kagaku Kaishi / Chemical Society of Japan - Chemistry and Industrial Chemistry Journal, 1989, 1989, 1523-1530. | 0.1 | 5 |
| 76 | Hydrogenation of ethyl phenylacetate to 2-phenylethanol by ruthenium/tin/alumina catalysts elimination of need for high temperature activation of the catalysts with hydrogen; optimum oxidation state of tin. Applied Catalysis A: General, 1997, 165, 309-317. | 4.3 | 5 |
| 77 | Effect of Yb Loading on Aromatic Hydrogenation Activity of Pd-Pt/USY Zeolite Catalysts. Journal of the Japan Petroleum Institute, 2008, 51, 58-64. | 0.6 | 5 |
| 78 | Influence of Degree of Unsaturation of Fatty Acid Methyl Ester on Oxidative Deterioration Behavior of Model Biodiesel Mixed Diesel Fuel. Journal of the Japan Petroleum Institute, 2009, 52, 359-360. | 0.6 | 5 |
| 79 | Fischer-Tropsch synthesis over bimodal Co-Ir-SiO2 catalysts prepared by the alkoxide method. Reaction Kinetics and Catalysis Letters, 2005, 86, 3-9. | 0.6 | 4 |
| 80 | Synthesis of monodisperse platinum nanoparticles supported on carbon gel microspheres. Journal of Non-Crystalline Solids, 2006, 352, 2929-2932. | 3.1 | 4 |
| 81 | Alkylation of toluene with methanol over a zeolite disc synthesized through solid state reactions. Reaction Kinetics and Catalysis Letters, 1997, 60, 89-92. | 0.6 | 3 |
| 82 | Separation of Sulfur Compounds in Straight-Run Naphtha. Bulletin of the Chemical Society of Japan, 2007, 80, 2157-2160. | 3.2 | 3 |
| 83 | Effect of Antioxidant Species on Oxidation Stability of Fish Oil Biodiesel. Journal of the Japan Petroleum Institute, 2010, 53, 365-366. | 0.6 | 3 |
| 84 | Effect of Electrostatic Precipitator on Collection Efficiency of Bio-oil in Fast Pyrolysis of Biomass. Journal of the Japan Petroleum Institute, 2013, 56, 401-405. | 0.6 | 3 |
| 85 | Interpretation of IR spectra of adsorbed compounds on tectosilicate surfaces. Journal of Molecular Structure, 1999, 482-483, 43-47. | 3.6 | 2 |
| 86 | Thermal Behaviour of Nanoporous Composites. Magyar AprÃ³vad KÃ¶zlemÃ©nyek, 1999, 56, 227-232. | 1.4 | 2 |
| 87 | Preparation of Titania Containing Mixed Oxides and Their Catalytic Activities. Journal of Sol-Gel Science and Technology, 2000, 19, 695-699. | 2.4 | 2 |
| 88 | Hydroisomerization of <i>n</i>-Hexadecane over Pt/Beta and Pt/USY Zeolite Catalysts. Journal of the Japan Petroleum Institute, 2009, 52, 143-144. | 0.6 | 2 |
| 89 | Deoxygenation of Bio-oil over Reduced Catalysts. Journal of the Japan Petroleum Institute, 2011, 54, 222-223. | 0.6 | 2 |
| 90 | Effect of Extraframework Aluminum of USY Zeolite on Sulfur Tolerance of Pd-Pt/USY Catalyst. Journal of the Japan Petroleum Institute, 2008, 51, 315-316. | 0.6 | 2 |

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|---|---|---|---|
| 91 | Partial hydrogenation of benzene with ruthenium catalysts prepared by a chemical mixing-spray drying procedure.. Nippon Kagaku Kaishi / Chemical Society of Japan - Chemistry and Industrial Chemistry Journal, 1990, 1990, 284-290. | 0.1 | 1 |
| 92 | Production of high quality transportation fuel from non-food biomass. Oleoscience, 2012, 12, 175-181. | 0.0 | 1 |
| 93 | Utilization Technology of Biofuels for Vehicle Engines -Biodiesel Fuel. Journal of the Japan Institute of Marine Engineering, 2012, 47, 83-88. | 0.0 | 1 |
| 94 | Bimodal Porous Co-Ir-SiO<sub>2</sub> Catalysts Prepared by Sol-gel Process with Alkoxide for Fischer-Tropsch Synthesis. Journal of the Japan Petroleum Institute, 2006, 49, 28-32. | 0.6 | 0 |