

Yasuhiro Yamada

List of Publications by Citations

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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.

100
papers

2,401
citations

28
h-index

45
g-index

104
ext. papers

3,007
ext. citations

5.7
avg. IF

5.53
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 100 | Glycerol hydrogenolysis into useful C3 chemicals. <i>Applied Catalysis B: Environmental</i> , 2016 , 193, 75-92 | 21.8 | 179 |
| 99 | Origins of sp(3)C peaks in C1s X-ray Photoelectron Spectra of Carbon Materials. <i>Analytical Chemistry</i> , 2016 , 88, 6110-4 | 7.8 | 137 |
| 98 | Analysis of heat-treated graphite oxide by X-ray photoelectron spectroscopy. <i>Journal of Materials Science</i> , 2013 , 48, 8171-8198 | 4.3 | 104 |
| 97 | Glycerol as a potential renewable raw material for acrylic acid production. <i>Green Chemistry</i> , 2017 , 19, 3186-3213 | 10 | 101 |
| 96 | Subnanometer vacancy defects introduced on graphene by oxygen gas. <i>Journal of the American Chemical Society</i> , 2014 , 136, 2232-5 | 16.4 | 98 |
| 95 | Nitrogen-containing graphene analyzed by X-ray photoelectron spectroscopy. <i>Carbon</i> , 2014 , 70, 59-74 | 10.4 | 94 |
| 94 | Selective Dehydration of Alkanediols into Unsaturated Alcohols over Rare Earth Oxide Catalysts. <i>ACS Catalysis</i> , 2013 , 3, 721-734 | 13.1 | 80 |
| 93 | Enhancing the thermal conductivity and compressive modulus of carbon fiber polymer matrix composites in the through-thickness direction by nanostructuring the interlaminar interface with carbon black. <i>Carbon</i> , 2008 , 46, 1060-1071 | 10.4 | 73 |
| 92 | Efficient production of 1,3-butadiene in the catalytic dehydration of 2,3-butanediol. <i>Applied Catalysis A: General</i> , 2015 , 491, 163-169 | 5.1 | 58 |
| 91 | Catalytic performance of rare earth oxides in ketonization of acetic acid. <i>Journal of Molecular Catalysis A</i> , 2011 , 346, 79-86 | | 56 |
| 90 | Effect of Ag loading on Cu/Al ₂ O ₃ catalyst in the production of 1,2-propanediol from glycerol. <i>Applied Catalysis A: General</i> , 2014 , 475, 63-68 | 5.1 | 55 |
| 89 | Dehydration of 2,3-butanediol into 3-buten-2-ol catalyzed by ZrO ₂ . <i>Catalysis Communications</i> , 2014 , 48, 1-4 | 3.2 | 53 |
| 88 | Future Prospect of the Production of 1,3-Butadiene from Butanediols. <i>Chemistry Letters</i> , 2016 , 45, 1036-1047 | 10.4 | 51 |
| 87 | Functionalized graphene sheets coordinating metal cations. <i>Carbon</i> , 2014 , 75, 81-94 | 10.4 | 48 |
| 86 | Synthesis of ordered carbonaceous frameworks from organic crystals. <i>Nature Communications</i> , 2017 , 8, 109 | 17.4 | 45 |
| 85 | Vapor-phase hydrogenation of levulinic acid to γ -valerolactone over Cu-Ni bimetallic catalysts. <i>Catalysis Communications</i> , 2017 , 97, 79-82 | 3.2 | 40 |
| 84 | Vapor-phase hydrogenation of levulinic acid and methyl levulinate to γ -valerolactone over non-noble metal-based catalysts. <i>Molecular Catalysis</i> , 2017 , 437, 105-113 | 3.3 | 37 |

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| 83 | Vapor-phase Dehydration of Glycerol into Hydroxyacetone over Silver Catalyst. <i>Chemistry Letters</i> , 2012 , 41, 965-966 | 1.7 | 36 |
| 82 | Efficient production of propylene in the catalytic conversion of glycerol. <i>Applied Catalysis B: Environmental</i> , 2015 , 174-175, 13-20 | 21.8 | 35 |
| 81 | Electrochemical behavior of metallic and semiconducting single-wall carbon nanotubes for electric double-layer capacitor. <i>Carbon</i> , 2012 , 50, 1422-1424 | 10.4 | 35 |
| 80 | Dehydration of 1,3-butanediol over rare earth oxides. <i>Applied Catalysis A: General</i> , 2010 , 377, 92-98 | 5.1 | 35 |
| 79 | Efficient formation of angelica lactones in a vapor-phase conversion of levulinic acid. <i>Applied Catalysis A: General</i> , 2016 , 526, 62-69 | 5.1 | 35 |
| 78 | Carbon materials with controlled edge structures. <i>Carbon</i> , 2017 , 122, 694-701 | 10.4 | 34 |
| 77 | Hole Opening of Carbon Nanotubes and Their Capacitor Performance. <i>Energy & Fuels</i> , 2010 , 24, 3373-3377 | 4.1 | 32 |
| 76 | Catalytic dehydration of 1,2-propanediol into propanal. <i>Applied Catalysis A: General</i> , 2009 , 366, 304-308 | 5.1 | 32 |
| 75 | Selective dehydration of 2,3-butanediol to 3-buten-2-ol over ZrO ₂ modified with CaO. <i>Applied Catalysis A: General</i> , 2014 , 487, 226-233 | 5.1 | 30 |
| 74 | Carbon Materials with Zigzag and Armchair Edges. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 40715-40730 | 10.5 | 30 |
| 73 | Analyses of oxidation process for isotropic pitch-based carbon fibers using model compounds. <i>Carbon</i> , 2019 , 142, 311-326 | 10.4 | 28 |
| 72 | Vapor-phase dehydration of C ₄ unsaturated alcohols to 1,3-butadiene. <i>Applied Catalysis A: General</i> , 2017 , 531, 21-28 | 5.1 | 26 |
| 71 | Stable vapor-phase conversion of tetrahydrofurfuryl alcohol into 3,4-dihydro-2H-pyran. <i>Applied Catalysis A: General</i> , 2013 , 453, 213-218 | 5.1 | 25 |
| 70 | Hydrogenation of Valerolactone to 1,4-pentanediol in a continuous flow reactor. <i>Applied Catalysis A: General</i> , 2017 , 542, 289-295 | 5.1 | 24 |
| 69 | Production of 1,3-butadiene from biomass-derived C ₄ alcohols. <i>Fuel Processing Technology</i> , 2020 , 197, 106193 | 7.2 | 24 |
| 68 | Capacitor Properties and Pore Structure of Single- and Double-Walled Carbon Nanotubes. <i>Electrochemical and Solid-State Letters</i> , 2009 , 12, K14 | | 23 |
| 67 | Knoevenagel condensation using nitrogen-doped carbon catalysts. <i>Carbon</i> , 2016 , 109, 208-220 | 10.4 | 23 |
| 66 | Spectral change of simulated X-ray photoelectron spectroscopy from graphene to fullerene. <i>Journal of Materials Science</i> , 2015 , 50, 6739-6747 | 4.3 | 22 |

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| 65 | Pyrolysis of Epoxidized Fullerenes Analyzed by Spectroscopies. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 7076-7084 | 3.8 | 22 |
| 64 | Catalytic Dehydration of 1,2-Propanediol into Propanal over Ag-Modified Silica/Alumina. <i>Chemistry Letters</i> , 2014 , 43, 450-452 | 1.7 | 22 |
| 63 | Acid-Base concerted mechanism in the dehydration of 1,4-butanediol over bixbyite rare earth oxide catalysts. <i>Catalysis Today</i> , 2014 , 226, 124-133 | 5.3 | 21 |
| 62 | Production of propanal from 1,2-propanediol over silica-supported WO ₃ catalyst. <i>Applied Catalysis A: General</i> , 2014 , 487, 234-241 | 5.1 | 21 |
| 61 | Vapor-phase catalytic dehydration of 1,4-butanediol to 3-buten-1-ol over modified ZrO ₂ catalysts. <i>Applied Catalysis A: General</i> , 2017 , 535, 9-16 | 5.1 | 20 |
| 60 | Vapor-phase catalytic dehydration of 2,3-butanediol to 3-buten-2-ol over ZrO ₂ modified with alkaline earth metal oxides. <i>Applied Catalysis A: General</i> , 2017 , 530, 66-74 | 5.1 | 20 |
| 59 | Distinguishing Zigzag and Armchair Edges on Graphene Nanoribbons by X-ray Photoelectron and Raman Spectroscopies. <i>ACS Omega</i> , 2018 , 3, 17789-17796 | 3.9 | 20 |
| 58 | Carbonization mechanisms of polyimide: Methodology to analyze carbon materials with nitrogen, oxygen, pentagons, and heptagons. <i>Carbon</i> , 2021 , 178, 58-80 | 10.4 | 18 |
| 57 | Vapor-phase self-aldol condensation of butanal over Ag-modified TiO ₂ . <i>Applied Catalysis A: General</i> , 2016 , 524, 8-16 | 5.1 | 17 |
| 56 | Quantitative Analysis of Zigzag and Armchair Edges on Carbon Materials with and without Pentagons Using Infrared Spectroscopy. <i>Analytical Chemistry</i> , 2018 , 90, 10724-10731 | 7.8 | 17 |
| 55 | Stable Cu-Ni/SiO ₂ catalysts prepared by using citric acid-assisted impregnation for vapor-phase hydrogenation of levulinic acid. <i>Molecular Catalysis</i> , 2018 , 454, 70-76 | 3.3 | 17 |
| 54 | Cyclodehydration of diethylene glycol over Ag-modified Al ₂ O ₃ catalyst. <i>Applied Catalysis A: General</i> , 2015 , 505, 422-430 | 5.1 | 16 |
| 53 | Vapor-phase Catalytic Dehydration of 2,3-Butanediol into 3-Buten-2-ol over Sc ₂ O ₃ . <i>Chemistry Letters</i> , 2014 , 43, 1773-1775 | 1.7 | 15 |
| 52 | Selective production of 1,3-butadiene in the dehydration of 1,4-butanediol over rare earth oxides. <i>Applied Catalysis A: General</i> , 2018 , 562, 11-18 | 5.1 | 14 |
| 51 | Selective doping of nitrogen into carbon materials without catalysts. <i>Journal of Materials Science</i> , 2016 , 51, 8900-8915 | 4.3 | 13 |
| 50 | Exfoliated graphene ligands stabilizing copper cations. <i>Carbon</i> , 2011 , 49, 3375-3378 | 10.4 | 13 |
| 49 | Production of aldehydes from 1,2-alkanediols over silica-supported WO ₃ catalyst. <i>Applied Catalysis A: General</i> , 2016 , 526, 164-171 | 5.1 | 12 |
| 48 | Preparation of Er ₂ O ₃ Nanorod Catalyst without Using Organic Additive and Its Application to Catalytic Dehydration of 1,4-Butanediol. <i>Chemistry Letters</i> , 2012 , 41, 593-594 | 1.7 | 12 |

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| 47 | Carbon materials with high pentagon density. <i>Journal of Materials Science</i> , 2021 , 56, 2912-2943 | 4.3 | 12 |
| 46 | Vapor-phase catalytic dehydration of butanediols to unsaturated alcohols over yttria-stabilized zirconia catalysts. <i>Applied Catalysis A: General</i> , 2019 , 575, 48-57 | 5.1 | 11 |
| 45 | Bottom-up synthesis of highly soluble carbon materials. <i>Journal of Materials Science</i> , 2020 , 55, 11808-11828 | 4.9 | 11 |
| 44 | Efficient formation of nitriles in the vapor-phase catalytic dehydration of aldoximes. <i>Green Chemistry</i> , 2016 , 18, 3389-3396 | 10 | 11 |
| 43 | Structural analysis of carbon materials by X-ray photoelectron spectroscopy using computational chemistry. <i>Tanso</i> , 2015 , 2015, 181-189 | 0.1 | 11 |
| 42 | Selective hydrogenation of γ -valerolactone to 2-methyltetrahydrofuran over Cu/Al ₂ O ₃ catalyst. <i>Applied Catalysis A: General</i> , 2020 , 590, 117309 | 5.1 | 11 |
| 41 | High CO ₂ Sensitivity and Reversibility on Nitrogen-Containing Polymer by Remarkable CO ₂ Adsorption on Nitrogen Sites. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 24143-24149 | 3.8 | 11 |
| 40 | Vapor-phase intramolecular aldol condensation of 2,5-hexanedione to 3-methylcyclopent-2-enone over ZrO ₂ -supported Li ₂ O catalyst. <i>Catalysis Communications</i> , 2017 , 92, 105-108 | 3.2 | 10 |
| 39 | Efficient formation of γ -valerolactone in the vapor-phase hydrogenation of levulinic acid over Cu-Co/alumina catalyst. <i>Catalysis Communications</i> , 2020 , 139, 105967 | 3.2 | 10 |
| 38 | Oxygen Migration and Selective CO and CO ₂ Formation from Epoxidized Fullerenes. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 7085-7093 | 3.8 | 10 |
| 37 | Vapor-phase catalytic dehydration of terminal diols. <i>Catalysis Today</i> , 2011 , 164, 419-424 | 5.3 | 10 |
| 36 | Amorphous SiO ₂ catalyst for vapor-phase aldol condensation of butanal. <i>Applied Catalysis A: General</i> , 2019 , 570, 113-119 | 5.1 | 9 |
| 35 | Bromination of graphene with pentagonal, hexagonal zigzag and armchair, and heptagonal edges. <i>Journal of Materials Science</i> , 2015 , 50, 5183-5190 | 4.3 | 8 |
| 34 | Epoxy-based carbon films with high electrical conductivity attached to an alumina substrate. <i>Carbon</i> , 2008 , 46, 1798-1801 | 10.4 | 8 |
| 33 | Stable Vapor-phase Catalytic Conversion of Pinacolone into 2,3-Dimethyl-1,3-butadiene. <i>Chemistry Letters</i> , 2012 , 41, 831-833 | 1.7 | 7 |
| 32 | Origins of peaks of graphitic and pyrrolic nitrogen in N1s X-ray photoelectron spectra of carbon materials: quaternary nitrogen, tertiary amine, or secondary amine?. <i>Journal of Materials Science</i> , 2021 , 56, 15798-15811 | 4.3 | 7 |
| 31 | Carbonization of phloroglucinol promoted by heteropoly acids. <i>Journal of Materials Science</i> , 2021 , 56, 2944-2960 | 4.3 | 7 |
| 30 | Vapor-phase hydrogenation of acetoin and diacetyl into 2,3-butanediol over supported metal catalysts. <i>Catalysis Communications</i> , 2017 , 99, 53-56 | 3.2 | 6 |

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| 29 | Dehydration of 3-methyl-1,3-butanediol over Al ₂ O ₃ modified with carbon. <i>Applied Catalysis A: General</i> , 2014 , 475, 147-154 | 5.1 | 6 |
| 28 | Adsorptive interaction between 1,5-pentanediol and MgO-modified ZrO ₂ catalyst in the vapor-phase dehydration to produce 4-penten-1-ol. <i>Applied Catalysis A: General</i> , 2017 , 546, 96-102 | 5.1 | 6 |
| 27 | Three-dimensional microstructuring of carbon by thermoplastic spacer evaporation during pyrolysis. <i>Carbon</i> , 2008 , 46, 1765-1772 | 10.4 | 6 |
| 26 | Brominated positions on graphene nanoribbon analyzed by infrared spectroscopy. <i>Journal of Materials Science</i> , 2020 , 55, 10522-10542 | 4.3 | 6 |
| 25 | Dehydration of Biomass-Derived Butanediols over Rare Earth Zirconate Catalysts. <i>Catalysts</i> , 2020 , 10, 1392 | 4 | 5 |
| 24 | Assembly of carbon nanotubes into microparticles with tunable morphologies using droplets in a non-equilibrium state. <i>RSC Advances</i> , 2017 , 7, 17773-17780 | 3.7 | 5 |
| 23 | Solvent-Free Diels-Alder Reaction in a Closed Batch System. <i>Bulletin of the Chemical Society of Japan</i> , 2013 , 86, 276-282 | 5.1 | 5 |
| 22 | Vapor-phase hydrogenation of levulinic acid to γ -valerolactone over Cu-Ni alloy catalysts. <i>Applied Catalysis A: General</i> , 2021 , 616, 118093 | 5.1 | 5 |
| 21 | Heptagons in the Basal Plane of Graphene Nanoflakes Analyzed by Simulated X-ray Photoelectron Spectroscopy. <i>ACS Omega</i> , 2021 , 6, 2389-2395 | 3.9 | 5 |
| 20 | Unveiling bonding states and roles of edges in nitrogen-doped graphene nanoribbon by X-ray photoelectron spectroscopy. <i>Carbon</i> , 2021 , 185, 342-367 | 10.4 | 5 |
| 19 | Advantages of using Cu/SiO ₂ catalyst for vapor-phase dehydrogenation of 1-decanol into decanal. <i>Applied Catalysis A: General</i> , 2019 , 582, 117109 | 5.1 | 4 |
| 18 | Vapor-phase synthesis of piperidine over SiO ₂ catalysts. <i>Catalysis Communications</i> , 2018 , 110, 42-45 | 3.2 | 3 |
| 17 | Dehydration of 5-amino-1-pentanol over rare earth oxides. <i>Applied Catalysis A: General</i> , 2016 , 517, 73-80 | 5.1 | 3 |
| 16 | Selective Production of 1,3-Butadiene from 1,3-Butanediol over Y ₂ Zr ₂ O ₇ Catalyst. <i>Bulletin of the Chemical Society of Japan</i> , 2021 , 94, 1651-1658 | 5.1 | 3 |
| 15 | Catalytic dehydration of 1,3-butanediol over oxygen-defected fluorite Yb ₂ Zr ₂ O ₇ . <i>Molecular Catalysis</i> , 2019 , 473, 110399 | 3.3 | 2 |
| 14 | Liquid-Phase Cyclodimerization of 1,3-Butadiene in a Closed Batch System. <i>Bulletin of the Chemical Society of Japan</i> , 2013 , 86, 529-533 | 5.1 | 2 |
| 13 | Pentagons and Heptagons on Edges of Graphene Nanoflakes Analyzed by X-ray Photoelectron and Raman Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 9955-9962 | 6.4 | 2 |
| 12 | Infrared spectroscopy of graphene nanoribbons and aromatic compounds with sp ³ CH (methyl or methylene groups). <i>Journal of Materials Science</i> , 2021 , 56, 12285-12314 | 4.3 | 2 |

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|----|--|-----|---|
| 11 | Bottom-up synthesis of oxygen-containing carbon materials using a Lewis acid catalyst. <i>Journal of Materials Science</i> , 2021 , 56, 15698-15717 | 4.3 | 2 |
| 10 | Preparative chemistry of calcia-stabilized ZrO ₂ for vapor-phase dehydration of 1,4-butanediol. <i>Molecular Catalysis</i> , 2021 , 503, 111343 | 3.3 | 1 |
| 9 | Bromination Reactivity of Oxygen-Terminated Edges of Graphene. <i>Journal of Nanoscience and Nanotechnology</i> , 2021 , 21, 3004-3009 | 1.3 | 1 |
| 8 | Control of coke deposition in solid acid catalysis through the doping of transition metal combined with the assistance of H ₂ : A review. <i>Applied Catalysis A: General</i> , 2021 , 626, 118340 | 5.1 | 1 |
| 7 | Isomerization of Crotyl Alcohol Catalyzed by V ₂ O ₅ -modified Silica. <i>Chemistry Letters</i> , 2021 , 50, 1635-1638 | 7 | 1 |
| 6 | Metal-free Covalent Triazine Framework Prepared from 2,4,6-Tricyano-1,3,5-triazine through Open-system and Liquid-phase Synthesis. <i>Chemistry Letters</i> , 2021 , 50, 1773-1777 | 1.7 | 1 |
| 5 | Dehydration of 2,3-butanediol to produce 1,3-butadiene over Sc ₂ O ₃ catalyst prepared through hydrothermal aging. <i>Molecular Catalysis</i> , 2021 , 516, 111996 | 3.3 | 0 |
| 4 | Vapor-phase dehydration of 1,4-butanediol to 1,3-butadiene over Y ₂ Zr ₂ O ₇ catalyst. <i>Molecular Catalysis</i> , 2021 , 514, 111853 | 3.3 | 0 |
| 3 | Bottom-up synthesis of carbon materials with high pyridinic-nitrogen content from dibenzacridine isomers with zigzag and armchair edges. <i>Journal of Materials Science</i> , 2022 , 57, 7503-7530 | 4.3 | 0 |
| 2 | Vapor-phase isomerization of 3-pentenal over amorphous SiO ₂ catalyst. <i>Applied Catalysis A: General</i> , 2019 , 576, 65-73 | 5.1 | |
| 1 | Capacitor Properties of Bundled Single- and Double-Walled Carbon Nanotubes and Their Electrochemical Doping Mechanism. <i>ECS Transactions</i> , 2009 , 16, 77-82 | 1 | |