

Yasuhiro Yamada

List of Publications by Year in Descending Order

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Version: 2024-04-28

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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	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
99	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
98	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
97	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
96	Vapor-phase hydrogenation of levulinic acid to Valerolactone over Cu-Ni alloy catalysts. <i>Applied Catalysis A: General</i> , 2021 , 616, 118093	5.1	5
95	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
94	Bromination Reactivity of Oxygen-Terminated Edges of Graphene. <i>Journal of Nanoscience and Nanotechnology</i> , 2021 , 21, 3004-3009	1.3	1
93	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
92	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
91	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
90	Carbon materials with high pentagon density. <i>Journal of Materials Science</i> , 2021 , 56, 2912-2943	4.3	12
89	Carbonization of phloroglucinol promoted by heteropoly acids. <i>Journal of Materials Science</i> , 2021 , 56, 2944-2960	4.3	7
88	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
87	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
86	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
85	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
84	Isomerization of Crotyl Alcohol Catalyzed by V ₂ O ₅ -modified Silica. <i>Chemistry Letters</i> , 2021 , 50, 1635-1638	7	1

83	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
82	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
81	Dehydration of Biomass-Derived Butanediols over Rare Earth Zirconate Catalysts. <i>Catalysts</i> , 2020 , 10, 1392	4	5
80	Bottom-up synthesis of highly soluble carbon materials. <i>Journal of Materials Science</i> , 2020 , 55, 11808-11828	4.9	11
79	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
78	Brominated positions on graphene nanoribbon analyzed by infrared spectroscopy. <i>Journal of Materials Science</i> , 2020 , 55, 10522-10542	4.3	6
77	Production of 1,3-butadiene from biomass-derived C4 alcohols. <i>Fuel Processing Technology</i> , 2020 , 197, 106193	7.2	24
76	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
75	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
74	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
73	Vapor-phase isomerization of 3-pentenal over amorphous SiO ₂ catalyst. <i>Applied Catalysis A: General</i> , 2019 , 576, 65-73	5.1	
72	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
71	Amorphous SiO ₂ catalyst for vapor-phase aldol condensation of butanal. <i>Applied Catalysis A: General</i> , 2019 , 570, 113-119	5.1	9
70	Analyses of oxidation process for isotropic pitch-based carbon fibers using model compounds. <i>Carbon</i> , 2019 , 142, 311-326	10.4	28
69	Vapor-phase synthesis of piperidine over SiO ₂ catalysts. <i>Catalysis Communications</i> , 2018 , 110, 42-45	3.2	3
68	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
67	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
66	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

65	Carbon Materials with Zigzag and Armchair Edges. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 4071-4073	10.5	39
64	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
63	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
62	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
61	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
60	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
59	Glycerol as a potential renewable raw material for acrylic acid production. <i>Green Chemistry</i> , 2017 , 19, 3186-3213	10	101
58	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
57	Hydrogenation of γ -valerolactone to 1,4-pentanediol in a continuous flow reactor. <i>Applied Catalysis A: General</i> , 2017 , 542, 289-295	5.1	24
56	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
55	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
54	Synthesis of ordered carbonaceous frameworks from organic crystals. <i>Nature Communications</i> , 2017 , 8, 109	17.4	45
53	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
52	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
51	Carbon materials with controlled edge structures. <i>Carbon</i> , 2017 , 122, 694-701	10.4	34
50	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
49	Future Prospect of the Production of 1,3-Butadiene from Butanediols. <i>Chemistry Letters</i> , 2016 , 45, 1036-1047	1.947	51
48	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

47	Selective doping of nitrogen into carbon materials without catalysts. <i>Journal of Materials Science</i> , 2016 , 51, 8900-8915	4.3	13
46	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
45	Dehydration of 5-amino-1-pentanol over rare earth oxides. <i>Applied Catalysis A: General</i> , 2016 , 517, 73-80	5.1	3
44	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
43	Efficient formation of nitriles in the vapor-phase catalytic dehydration of aldoximes. <i>Green Chemistry</i> , 2016 , 18, 3389-3396	10	11
42	Glycerol hydrogenolysis into useful C ₃ chemicals. <i>Applied Catalysis B: Environmental</i> , 2016 , 193, 75-92	21.8	179
41	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
40	Knoevenagel condensation using nitrogen-doped carbon catalysts. <i>Carbon</i> , 2016 , 109, 208-220	10.4	23
39	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
38	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
37	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
36	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
35	Efficient production of propylene in the catalytic conversion of glycerol. <i>Applied Catalysis B: Environmental</i> , 2015 , 174-175, 13-20	21.8	35
34	Structural analysis of carbon materials by X-ray photoelectron spectroscopy using computational chemistry. <i>Tanso</i> , 2015 , 2015, 181-189	0.1	11
33	Subnanometer vacancy defects introduced on graphene by oxygen gas. <i>Journal of the American Chemical Society</i> , 2014 , 136, 2232-5	16.4	98
32	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
31	Functionalized graphene sheets coordinating metal cations. <i>Carbon</i> , 2014 , 75, 81-94	10.4	48
30	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

29	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
28	Nitrogen-containing graphene analyzed by X-ray photoelectron spectroscopy. <i>Carbon</i> , 2014 , 70, 59-74	10.4	94
27	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
26	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
25	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
24	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
23	Pyrolysis of Epoxidized Fullerenes Analyzed by Spectroscopies. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 7076-7084	3.8	22
22	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
21	Catalytic Dehydration of 1,2-Propanediol into Propanal over Ag-Modified Silica-Alumina. <i>Chemistry Letters</i> , 2014 , 43, 450-452	1.7	22
20	Analysis of heat-treated graphite oxide by X-ray photoelectron spectroscopy. <i>Journal of Materials Science</i> , 2013 , 48, 8171-8198	4.3	104
19	Stable vapor-phase conversion of tetrahydrofurfuryl alcohol into 3,4-dihydropyran. <i>Applied Catalysis A: General</i> , 2013 , 453, 213-218	5.1	25
18	Selective Dehydration of Alkanediols into Unsaturated Alcohols over Rare Earth Oxide Catalysts. <i>ACS Catalysis</i> , 2013 , 3, 721-734	13.1	80
17	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
16	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
15	Vapor-phase Dehydration of Glycerol into Hydroxyacetone over Silver Catalyst. <i>Chemistry Letters</i> , 2012 , 41, 965-966	1.7	36
14	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
13	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
12	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

11	Catalytic performance of rare earth oxides in ketonization of acetic acid. <i>Journal of Molecular Catalysis A</i> , 2011 , 346, 79-86		56
10	Vapor-phase catalytic dehydration of terminal diols. <i>Catalysis Today</i> , 2011 , 164, 419-424	5.3	10
9	Exfoliated graphene ligands stabilizing copper cations. <i>Carbon</i> , 2011 , 49, 3375-3378	10.4	13
8	Hole Opening of Carbon Nanotubes and Their Capacitor Performance <i>Energy & Fuels</i> , 2010 , 24, 3373-3377	4.1	32
7	Dehydration of 1,3-butanediol over rare earth oxides. <i>Applied Catalysis A: General</i> , 2010 , 377, 92-98	5.1	35
6	Capacitor Properties of Bundled Single- and Double-Walled Carbon Nanotubes and Their Electrochemical Doping Mechanism. <i>ECS Transactions</i> , 2009 , 16, 77-82	1	
5	Capacitor Properties and Pore Structure of Single- and Double-Walled Carbon Nanotubes. <i>Electrochemical and Solid-State Letters</i> , 2009 , 12, K14		23
4	Catalytic dehydration of 1,2-propanediol into propanal. <i>Applied Catalysis A: General</i> , 2009 , 366, 304-308	5.1	32
3	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
2	Epoxy-based carbon films with high electrical conductivity attached to an alumina substrate. <i>Carbon</i> , 2008 , 46, 1798-1801	10.4	8
1	Three-dimensional microstructuring of carbon by thermoplastic spacer evaporation during pyrolysis. <i>Carbon</i> , 2008 , 46, 1765-1772	10.4	6