

# Tadafumi Adschiri

## List of Publications by Year in descending order

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58  
papers

5,237  
citations

159585

30  
h-index

155660

55  
g-index

58  
all docs

58  
docs citations

58  
times ranked

4129  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dissolution and Hydrolysis of Cellulose in Subcritical and Supercritical Water. <i>Industrial &amp; Engineering Chemistry Research</i> , 2000, 39, 2883-2890.	3.7	609
2	Glucose and Fructose Decomposition in Subcritical and Supercritical Water: A Detailed Reaction Pathway, Mechanisms, and Kinetics. <i>Industrial &amp; Engineering Chemistry Research</i> , 1999, 38, 2888-2895.	3.7	523
3	Rapid and Continuous Hydrothermal Crystallization of Metal Oxide Particles in Supercritical Water. <i>Journal of the American Ceramic Society</i> , 1992, 75, 1019-1022.	3.8	441
4	Hydrothermal Synthesis of Metal Oxide Fine Particles at Supercritical Conditions. <i>Industrial &amp; Engineering Chemistry Research</i> , 2000, 39, 4901-4907.	3.7	391
5	Conversion of Lignin with Supercritical Water-Phenol Mixtures. <i>Energy &amp; Fuels</i> , 2003, 17, 922-928.	5.1	287
6	Green materials synthesis with supercritical water. <i>Green Chemistry</i> , 2011, 13, 1380.	9.0	267
7	Hydrothermal Synthesis of Metal Oxide Nanoparticles at Supercritical Conditions. <i>Journal of Nanoparticle Research</i> , 2001, 3, 227-235.	1.9	258
8	Extra-Low-Temperature Oxygen Storage Capacity of CeO <sub>2</sub> Nanocrystals with Cubic Facets. <i>Nano Letters</i> , 2011, 11, 361-364.	9.1	222
9	Rapid and Continuous Hydrothermal Synthesis of Boehmite Particles in Subcritical and Supercritical Water. <i>Journal of the American Ceramic Society</i> , 1992, 75, 2615-2618.	3.8	200
10	Noncatalytic Conversion of Cellulose in Supercritical and Subcritical Water. <i>Journal of Chemical Engineering of Japan</i> , 1993, 26, 676-680.	0.6	172
11	Rapid and selective retro-aldol condensation of glucose to glycolaldehyde in supercritical water. <i>Green Chemistry</i> , 2002, 4, 285-287.	9.0	170
12	Rapid and Selective Conversion of Glucose to Erythrose in Supercritical Water. <i>Industrial &amp; Engineering Chemistry Research</i> , 1997, 36, 5063-5067.	3.7	125
13	Catalytic Hydrodesulfurization of Dibenzothiophene through Partial Oxidation and a Water-Gas Shift Reaction in Supercritical Water. <i>Industrial &amp; Engineering Chemistry Research</i> , 1998, 37, 2634-2638.	3.7	121
14	Degradation Kinetics of Dihydroxyacetone and Glyceraldehyde in Subcritical and Supercritical Water. <i>Industrial &amp; Engineering Chemistry Research</i> , 1997, 36, 2025-2030.	3.7	106
15	Solubility of Lead(II) Oxide and Copper(II) Oxide in Subcritical and Supercritical Water. <i>Journal of Chemical &amp; Engineering Data</i> , 1999, 44, 1422-1426.	1.9	97
16	Supercritical Hydrothermal Synthesis of Organic-Inorganic Hybrid Nanoparticles. <i>Chemistry Letters</i> , 2007, 36, 1188-1193.	1.3	94
17	Ruthenium/Graphene-like Layered Carbon Composite as an Efficient Hydrogen Evolution Reaction Electrocatalyst. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 35132-35137.	8.0	92
18	Hydrogenation of Hydrocarbons through Partial Oxidation in Supercritical Water. <i>Industrial &amp; Engineering Chemistry Research</i> , 2000, 39, 4697-4701.	3.7	81

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19	Flow Method for Rapidly Producing Barium Hexaferrite Particles in Supercritical Water. Journal of the American Ceramic Society, 1998, 81, 2461-2464.	3.8	81
20	Atomic Scale Valence State Distribution inside Ultrafine CeO <sub>2</sub> Nanocubes and Its Size Dependence. Small, 2018, 14, e1802915.	10.0	77
21	Recovery of Terephthalic Acid by Decomposition of PET in Supercritical Water.. Kagaku Kogaku Ronbunshu, 1997, 23, 505-511.	0.3	75
22	Predictive Model for Equilibrium Constants of Aqueous Inorganic Species at Subcritical and Supercritical Conditions. Industrial & Engineering Chemistry Research, 2002, 41, 3298-3306.	3.7	66
23	Non-catalytic and selective alkylation of phenol with propan-2-ol in supercritical water. Chemical Communications, 2001, , 1566-1567.	4.1	55
24	Kinetics and product distribution of n-hexadecane pyrolysis. AIChE Journal, 2000, 46, 843-856.	3.6	52
25	Supercritical fluids for nanotechnology. Journal of Supercritical Fluids, 2018, 134, 167-175.	3.2	51
26	Synthesis of surface-modified monoclinic ZrO <sub>2</sub> nanoparticles using supercritical water. CrystEngComm, 2012, 14, 2132.	2.6	44
27	A kinetic study of catalytic hydrothermal reactions of acetaldehyde with cubic CeO <sub>2</sub> nanoparticles. Applied Catalysis A: General, 2018, 550, 284-296.	4.3	44
28	Size and Form Control of Titanylphthalocyanine Microcrystals by Supercritical Fluid Crystallization Method. Molecular Crystals and Liquid Crystals, 1998, 322, 167-172.	0.3	42
29	Lipase-catalyzed interesterification of triglyceride with supercritical carbon dioxide extraction.. Journal of Chemical Engineering of Japan, 1992, 25, 104-105.	0.6	32
30	Kinetics study to identify reaction-controlled conditions for supercritical hydrothermal nanoparticle synthesis with flow-type reactors. Journal of Supercritical Fluids, 2016, 110, 161-166.	3.2	31
31	Estimation of the degree of hydrogen bonding between quinoline and water by ultraviolet-visible absorbance spectroscopy in sub- and supercritical water. Journal of Chemical Physics, 2003, 118, 4573-4577.	3.0	29
32	Continuous Flow Synthesis of Nanoparticles Using Supercritical Water: Process Design, Surface Control, and Nanohybrid Materials. KONA Powder and Particle Journal, 2020, 37, 28-41.	1.7	29
33	Phenol Recovery by BPA Tar Hydrolysis in Supercritical Water.. Sekiyu Gakkaishi (Journal of the Japan) Tj ETQq1 1 0.784314 rgBT /Ove 0.1 27	0.1	27
34	Control of methanol oxidation by ionic behavior in supercritical water. Chemical Communications, 2001, , 2270-2271.	4.1	23
35	Exploitation of Surface Sensitive Electrons in Scanning Electron Microscopy Reveals the Formation Mechanism of New Cubic and Truncated Octahedral CeO <sub>2</sub> Nanoparticles. ChemCatChem, 2011, 3, 1038-1044.	3.7	21
36	Overall Rate Constant of Pyrolysis of n-Alkanes at a Low Conversion Level. Industrial & Engineering Chemistry Research, 2001, 40, 2027-2036.	3.7	20

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37	Characterization of coal char gasification rate. <i>AIChE Journal</i> , 1991, 37, 897-904.	3.6	19
38	Regioselectivity of phenol alkylation in supercritical water. <i>Green Chemistry</i> , 2002, 4, 449-451.	9.0	16
39	Highly Cr-Substituted CeO <sub>2</sub> Nanoparticles Synthesized Using a Non-equilibrium Supercritical Hydrothermal Process: High Oxygen Storage Capacity Materials Designed for a Low-Temperature Bitumen Upgrading Process. <i>ACS Applied Energy Materials</i> , 2020, 3, 4305-4319.	5.1	16
40	Potentiometric cell for measuring pH of supercritical aqueous solutions. <i>Review of Scientific Instruments</i> , 2001, 72, 4442-4448.	1.3	14
41	Interconnected 3D Framework of CeO <sub>2</sub> with High Oxygen Storage Capacity: High-Resolution Scanning Electron Microscopic Observation. <i>ACS Applied Nano Materials</i> , 2020, 3, 2346-2353.	5.0	12
42	Selective chemical recovery from biomass under hydrothermal conditions using metal oxide nanocatalyst. <i>Journal of Supercritical Fluids</i> , 2018, 133, 726-737.	3.2	11
43	Alkylation of Phenol with Carbonyl Compounds in Supercritical Water.. <i>Journal of Chemical Engineering of Japan</i> , 2003, 36, 339-342.	0.6	11
44	Kinetics of the Water-Gas Shift Reaction in Supercritical Water.. <i>Kagaku Kogaku Ronbunshu</i> , 1999, 25, 993-997.	0.3	10
45	Mechanism of supercritical fluid extraction of coal.. <i>Journal of Chemical Engineering of Japan</i> , 1991, 24, 715-720.	0.6	9
46	A new HRSEM approach to observe fine structures of novel nanostructured materials. <i>Microporous and Mesoporous Materials</i> , 2011, 146, 11-17.	4.4	9
47	Process assessments for low-temperature methane reforming using oxygen carrier metal oxide nanoparticles. <i>Chemical Engineering and Processing: Process Intensification</i> , 2019, 142, 107531.	3.6	9
48	Mixing and Solvent Effects on Kinetics of Supercritical Hydrothermal Synthesis: Reaction of Nickel Nitrate to Nickel Oxide. <i>Journal of Physical Chemistry C</i> , 2020, 124, 4772-4780.	3.1	9
49	Conversion of the hydroxyl group in 1-hexyl alcohol to an amide group in supercritical water without catalyst. <i>Green Chemistry</i> , 2003, 5, 95-97.	9.0	8
50	Granular Barium Titanate Nanowire-Based Adsorbents for the Removal of Strontium Ions from Contaminated Water. <i>ACS Applied Nano Materials</i> , 2019, 2, 6793-6797.	5.0	7
51	Mechanisms of the surface reaction and crystal growth of cerium oxide by supercritical hydrothermal treatment with carboxylic acids. <i>CrystEngComm</i> , 2021, 23, 5353-5361.	2.6	7
52	Supercritical Hydrothermal Synthesis of Nanoparticles. , 2018, , 683-689.		5
53	Supercritical Hydrothermal Synthesis of Organic-Modified Ce <sub>1-x</sub> Zr <sub>x</sub> O <sub>2</sub> (0 ≤ x ≤ 1) Nanoparticles at Low-Temperature Oxygen Carrier. <i>ChemNanoMat</i> , 2022, 8, .	3.8	4
54	Utilization of Sub- and Supercritical Water for Nano-Catalyst Synthesis and Waste and Biomass Processing. <i>Waste and Biomass Valorization</i> , 2022, 13, 51-66.	3.4	3

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55	Fossil Energy. Catalytic Hydrotreating for Nitrogen Removal from Coal Tar Pitch in Supercritical Fluid.. Kagaku Kogaku Ronbunshu, 1994, 20, 965-970.	0.3	2
56	Dealloying-oxidation Technique as a Powerful Synthetic Tool for Sodium Titanate Nanowires with High Ion-exchange Ability. Chemistry Letters, 2017, 46, 1825-1827.	1.3	1
57	Kinetics of Immobilized Enzyme with Nonuniform Activity Distribution.. Kagaku Kogaku Ronbunshu, 1999, 25, 331-337.	0.3	0
58	Supercritical Fluid as a Reaction Medium.. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 1993, 2, 287-294.	0.0	0